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SCIENCE CITATION INDEX®

1972 GUIDE

& JOURNAL LISTS

Indexes included in the 1972 *SCI*®

CITATION INDEX
ANONYMOUS CITATION INDEX
PATENT CITATION INDEX
SOURCE INDEX
CORPORATE INDEX
PERMUTERM® SUBJECT INDEX

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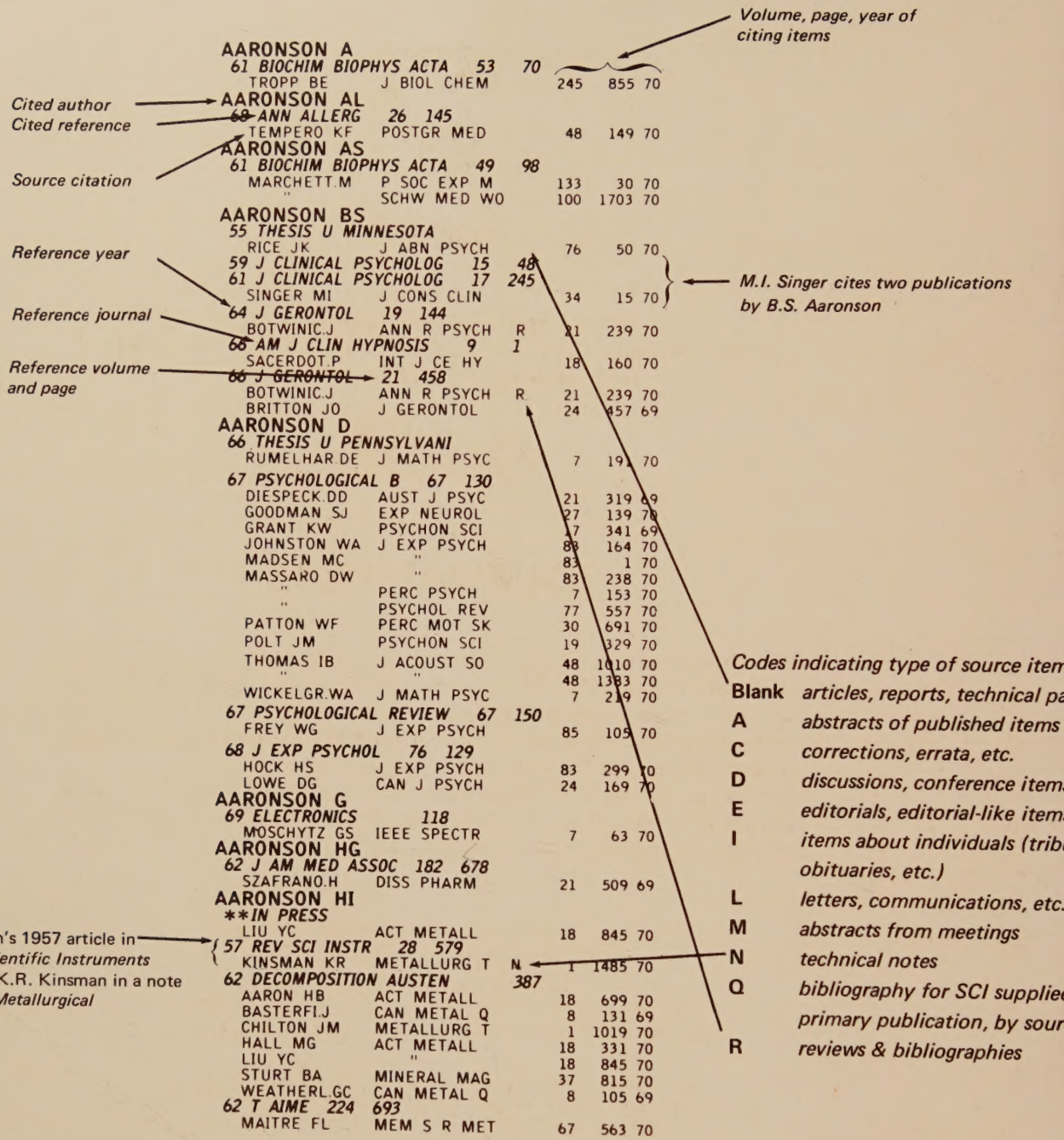
Citation Index

To find source items that cite a specific paper:

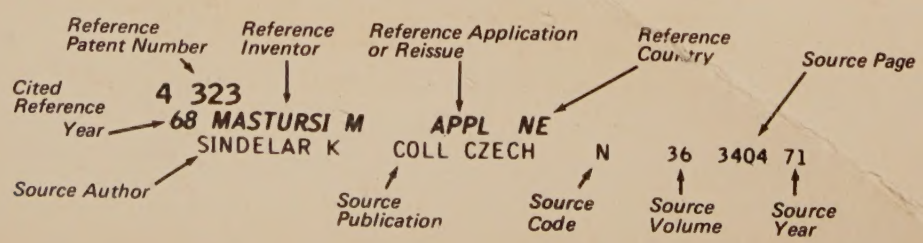
1. *locate cited author*
2. *locate reference year*
3. *locate reference publication, volume, and page*
4. *note that source (citing) items follow reference (cited) items*


Volume, page, year of citing items
Cited author
Cited reference
Source citation
Reference year
Reference journal
Reference volume and page
M.I. Singer cites two publications by B.S. Aaronson
H.I. Aaronson's 1957 article in Review of Scientific Instruments was cited by K.R. Kinsman in a note published in Metallurgical Transactions
Codes indicating type of source item:
Blank articles, reports, technical papers
A abstracts of published items
C corrections, errata, etc.
D discussions, conference items
E editorials, editorial-like items
I items about individuals (tributes, obituaries, etc.)
L letters, communications, etc.
M abstracts from meetings
N technical notes
Q bibliography for SCI supplied aft
primary publication, by source a
R reviews & bibliographies

To locate sources that cite a particular work, first look for the name of the cited or reference author in bold roman capital letters on the left. For each cited paper by that author there is a line in bold italics, giving reference year, title abbreviation, volume and page numbers. When the same reference has been cited more than once, the source citations are arranged alphabetically by first author. Each source citation gives the name of the first author, followed by journal title abbreviation, source item type code, and volume, page, and year. Though only first authors are given in the *Citation Index* proper, all authors will be listed in the *Source Index*.

Patent Citation Index

When a patent is cited in a source item the arrangement of the information is altered slightly. As shown in the example below, the cited patent number is used in place of the authors last name. The Patent Section is numerically arranged. Additional information is displayed in sequence as: cited reference year, inventor's name, country of issuance, and application or reissue status.



SCIENCE CITATION INDEX®

1972

SCI®

Annual

An International Interdisciplinary Index to the Literature of Science, Medicine, Agriculture, Technology, and the Behavioral and Social Sciences.

GUIDE

and

JOURNAL LISTS

This distinctively printed 1972 *Science Citation Index Guide and Journal Lists* is a complete introductory text for the ten volume 1972 Annual *SCI* Cumulation. It is provided as a separate publication for the convenience of subscribers in teaching the uses of the *Science Citation Index* and for bibliographic purposes such as checking library holdings against *SCI* coverage.
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Institute for Scientific Information, Inc.
325 Chestnut Street
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Telephone: 215/923-3300 Cable SCINFO

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SCIENCE CITATION INDEX®
General Introduction

The *SCI*® is a calendar-year index. With minor exceptions, each quarterly or annual includes all issues of journals published and available during the time period covered. Journal selection has placed an important emphasis on the multidisciplinary journals in order to provide the broadest coverage and to enable the searcher to obtain information across disciplines. Each journal receives comprehensive treatment so that doubts as to whether any particular article was indexed are eliminated. Comprehensive treatment also means processing all material that has substantive information. All possibly useful items, including editorials, letters, meeting reports, critical reviews, and so on, are processed, leaving nothing to chance; only ephemeral items such as advertisements and news notices are omitted.

The *Citation Index* of the *Science Citation Index.* The *Citation Index* provides indexing entries to the current literature by means of the ordered listing of all items cited during a current year. It is arranged alphabetically by cited author and within this arrangement chronologically by cited year. A citation to a reference contains the cited reference year, the author's name and initials, the publication name, volume, and page number. Under the name of each cited author appears the source article citing this work. This line is arranged by citing author's name, publication, code identifying type of source item, volume, page, and citing year. Only the first author for both the cited and citing articles is given in the *Citation Index.* While reference years may be any year in recorded history, the source year is always the current year. The form of the source article, i.e., letter, editorial, etc., is indicated by a code appearing just after the source title.

The *Citation Index* contains a section for anonymous items (no personal author specified for the cited work). These items are arranged alphabetically by the titles of the cited publications. Within each title the arrangement is chronological by year of publication, and within each given year by the reference volume and page number.

The *Patent Citation Index* of the *Science Citation Index* is a listing of foreign and domestic patents that have been cited or referred to in any of the foreign or domestic journals covered by the *SCI.* The index is arranged in numerical order by patent number and usually provides also the year of issuance, the inventor's name, and country.

The *Source Index* of the *Science Citation Index.* The *Source Index* provides a complete author index to the current literature and a full description of each citing item. This *Index* contains all source items processed for the *SCI,* arranged by author. The entries include all coauthors of items (maximum of ten), the title of the article, journal name, title, volume, page number, year, type of item (review, letter, correction, etc.,) number of references in the bibliography of the source, the issue number, part or supplement number. Cross-references for every coauthor are provided, even though the primary entries only list a maximum of ten. The "see reference" refers the user to the first author, journal, volume and page. Anonymous source articles appear at the beginning of the *Source Index* and are arranged by journal, volume and page.

The *Corporate Index* of the *Science Citation Index*. The *SCI* also contains a *Corporate Index* in which all items published in the source journals processed are listed under the organization where work was performed. The *Index* will indicate under each organization the names of staff who have authored articles, indicating journal, volume and page.

The *Permuterm*® *Subject Index* of *Science Citation Index*. The *Permuterm Subject Index* is an alphabetic list of significant words extracted from the titles of all source items processed for the *SCI.* Each significant word from a title (as a *primary term* or main entry) is paired with every other significant word in the title (as a *co-term* or subordinate entry) with reference from each such coordination to the first author of an item listed in the *Source Index.*

Undertaking a Search in the SCI®

Using the *Science Citation Index* is a relatively simple affair. In a citation index the subject of a search is symbolized by the starting reference rather than a word or subject heading. Searching, consequently, is independent of special nomenclatures or artificial languages. The searcher starts with a reference or an author he has identified through a footnote, book, encyclopedia or conventional word or subject index. He then enters the *Citation Index* section of the *Science Citation Index* and searches for that particular author's name. When he locates the author's name, he then checks to see which of several possible references fits the particular one that he is interested in. Under the year, journal, volume and page number of this particular reference, he then looks to see who has currently cited this particular work. Having noted the bibliographic citations of the authors who are citing the work with which he started, the searcher then turns to the *Source Index* section and obtains the complete bibliographic data for the works which he has found.

Citation indexing is highly specific, but a search may also be readily expanded in order to build a more extensive bibliography for a particular inquiry. For example, having found a number of source articles, the searcher can use the bibliographies of one or several of these as other entries into the *Citation Index;* this process is called "cycling." Since authors frequently write more than one closely related paper, additional articles by the author of the first starting reference can also be used as entry points, and citations to these articles can be examined to obtain additional information. The *Source Index* itself may yield relevant current articles by a given author, even though they may not cite any of the known starting references.

The fundamental question one can answer quickly through the *Citation Index* is where and by whom has this paper

been cited in the literature? The *SCI* is also used by scientists to determine whether their work has been applied or criticized by others. It can facilitate feedbacks in the communication cycle. Any author may choose to ignore the citations to his own work and still use the *Index* to retrieve publications which cite work by other scientists. The *SCI*® can be used to identify scientists currently working on special problems or to determine whether a paper has been cited, whether there has been a review of a subject, whether a concept has been applied, a theory confirmed, or a method improved. Because indications of corrections are published in the *SCI,* it is useful as an aid in following particular articles. Only the user's imagination limits the extent to which the *SCI* can be a useful tool for the scientist and librarian. Questions that the *SCI* can answer are:

-Has this paper been cited?
-Has there been a review on this subject?
-Has this concept been applied?
-Has this theory been confirmed?
-Has this work been extended?
-Has this method been improved?
-Has this suggestion been tried?
-Has this patent been cited in the journal literature?
-Is there a new synthesis for this old compound?
-Has this chemical been tested for biological activity?
-Has this drug had a clinical evaluation?
-Is this idea really original?
-Was this "to-be-published" paper published and where?
-Where's the full paper for this preliminary communication?
-Has this technical report been published in a journal?
-Have there been subsequent errata and correction notes published?
-Where are the data for an introduction to this paper?
-Where are the raw data for a review article on this subject?
-Is there sufficient new information to warrant up-dating a chapter in a book?
-What are the raw data for an analytical historical network diagram?
-Who else is working in this field?
-Are there data to delineate this field of study?
-What are some potential new markets for this instrument?
-What published work originated from this organization?
-Has this article been abstracted in primary journals?
-Has this product been applied to a new field?
-What are all the current works in which this man is primary author?
-What are all the current works in which this man is secondary author?
-What older works has this man written?
-Have this man's works been compiled?

The usefulness of the *SCI* can best be illustrated by conducting a hypothetical search.

The interest of the searcher is in life-like forms in meteorites. He has a starting reference, an article by Harold C. Urey published in *Science,* 1962, Volume 137, pages 623-628. To determine what other work has been done in this particular area, the searcher goes to the *Citation Index* and looks under Urey identifying the '62 *Science* article. Indented under this particular citation is a citation to a work by Mueller, G., that appeared in *Nature,* 1965, Volume 205, page 1200. Moving from the *Citation Index* to the *Source Index,* one looks under Mueller, finds the particular journal, year, volume and page reference, and there sees that Mueller published a letter in 1965 with the title "Interpretation of Micro-Structures in Carbonaceous Meteorites." If the searcher is interested in obtaining even more information than this one particular reference, he can now obtain Mueller's article, look at the ten references that are given and, using each reference as a starting point, enter the *Citation Index* once again. Since the probabilities are very high that if Mueller cited Urey's paper, the other papers that he would cite would also deal with the question of life-like forms in meteorites, then one can expect that the additional references will yield more current source articles on this particular subject.

The procedure of cycling permits the searcher to go backward and forward in time because, to cite the Urey-Mueller example again, he has begun with a past citation and moved forward to a current citation. If he follows through and uses the references in Mueller's paper as other starting points, then he is again going backward in time; and when he finds the current citations to these particular references, he has moved forward once again.

Relevancy of information obtained through use of citation indexes and the *SCI* in particular, is generally very high. A citation does not suffer from failure to include descriptive terminology—rather it is a brief representation of the content of the documents it identifies. Those who have studied citation indexes know that only a small number of reference citations is needed to isolate a particular document from all others in a collection.

Irrelevancy or "noise" can be eliminated in using citation indexes by careful selection of references as access points. In particular, if narrow specificity is desired in a search, the starting reference should be one which deals with only one subject. Another method of reducing "noise" is to apply the concept of bibliographic coupling to the search. This involves recording sources obtained from the index which have two or more starting references in common.

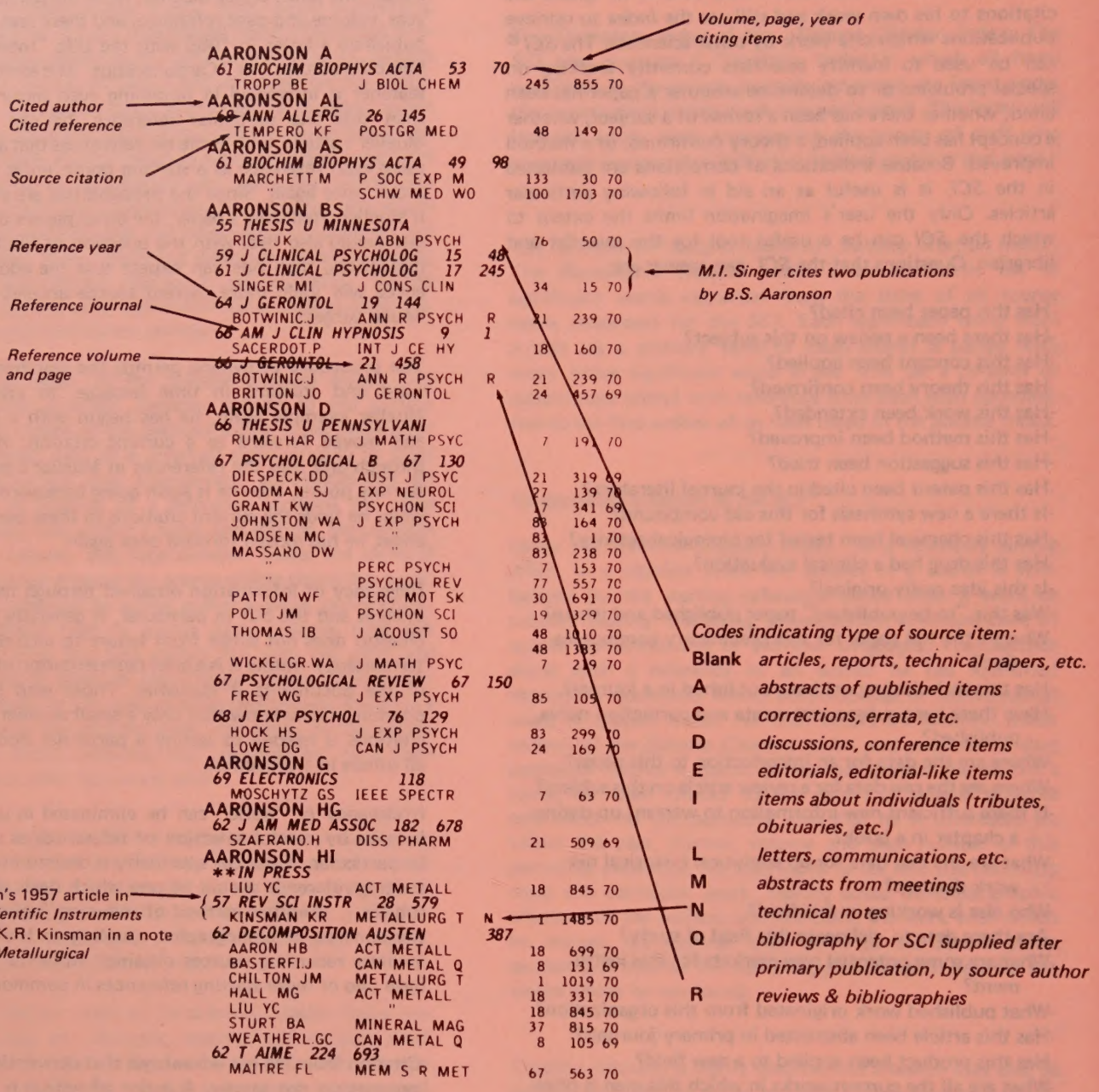
Citation indexing has advantages that conventional indexing systems do not supply. A major advantage is the fact that there is no terminology problem and there is no need to guess how an indexer might have indexed a particular item. Multidisciplinary coverage is another distinct benefit afforded by citation indexes such as *SCI.* Of importance too, are the speed and convenience which citation indexing provides to the searcher. Searches have been conducted using *SCI* on a variety of subjects and have yielded excellent results, some of which are available from the Institute for Scientific Information upon request.

The format and use of each of the sections of the *SCI* briefly described above are outlined in detail in the material which follows.

Citation Index

To find source items that cite a specific paper:

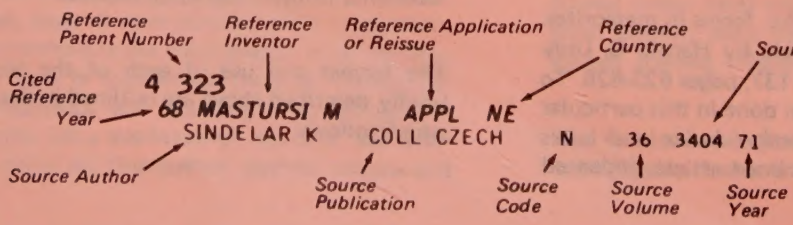
1. *locate cited author*
2. *locate reference year*
3. *locate reference publication, volume, and page*
4. *note that source (citing) items follow reference (cited) items*


Volume, page, year of citing items
Cited author
Cited reference
Source citation
Reference year
Reference journal
Reference volume and page
M.I. Singer cites two publications by B.S. Aaronson
H.I. Aaronson's 1957 article in Review of Scientific Instruments was cited by K.R. Kinsman in a note published in Metallurgical Transactions
Codes indicating type of source item:
Blank articles, reports, technical papers, etc.
A abstracts of published items
C corrections, errata, etc.
D discussions, conference items
E editorials, editorial-like items
I items about individuals (tributes, obituaries, etc.)
L letters, communications, etc.
M abstracts from meetings
N technical notes
Q bibliography for SCI supplied after primary publication, by source author
R reviews & bibliographies

To locate sources that cite a particular work, first look for the name of the cited or reference author in bold roman capital letters on the left. For each cited paper by that author there is a line in bold italics, giving reference year, title abbreviation, volume and page numbers. When the same reference has been cited more than once, the source citations are arranged alphabetically by first author. Each source citation gives the name of the first author, followed by journal title abbreviation, source item type code, and volume, page, and year. Though only first authors are given in the *Citation Index* proper, all authors will be listed in the *Source Index*.

Patent Citation Index

When a patent is cited in a source item the arrangement of the information is altered slightly. As shown in the example below, the cited patent number is used in place of the authors last name. The Patent Section is numerically arranged. Additional information is displayed in sequence as: cited reference year, inventor's name, country of issuance, and application or reissue status.



Citation Index

Entries in the *Citation Index* are arranged alphabetically by cited author. Under the name of each cited author, reference citations (cited items) are arranged chronologically, and within years by journal title abbreviation. Beneath each reference citation appear in alphabetical order by first author the citations for citing source articles.

The name of the cited author appears only once, at the head of the list of reference citations. The form of the reference citation is: year (two terminal digits); journal title abbreviation; volume; page number. The form of source citation is: citing author, journal title abbreviation; code for type of source item; volume; page; year (two terminal digits).

Where two or more reference citations are listed without interruption by any citing source item it is an indication that all such references were cited by the author(s) of the citing source item(s) following the last of these reference citations.

Anonymous Reference Citations. Cited anonymous works follow the letter *Z* in the *Citation Index,* and are arranged by journal title abbreviation, and then chronologically. Within each year, cited items are arranged in order of volume and page. Beneath each reference citation are arranged alphabetically by citing author, citations for source articles which cite the anonymous item. The abbreviation of the cited journal title appears only once, at the head of the list of reference citations. The form of the reference citation is: year (two terminal digits); volume; page. The form of the source citation is author; journal title abbreviation; code for type of source item; volume; page; year (two terminal digits).

Patent Citation Index. A listing of cited patents follows the listing of anonymous reference citations. Entries are arranged by cited patent number, and usually provide the following information: year of issue, inventor or assignee, and issuing country. A list of the abbreviations used for the names of issuing countries immediately precedes the *Patent Citation Index.*

Authors. Every reference citation from the text, footnotes, or bibliography of a source item is processed for the *Citation Index.* The name of only the first author of these cited items is given in the *Citation Index.* A maximum of 18 characters is allowed for the last name of cited authors; where the cited author's last name has more than 18 characters, the name is truncated, truncation indicated by a period following the seventeenth letter of the name. A maximum of 9 characters is allowed for the names of citing authors, longer names being truncated by a period after the eighth letter of the name. In both cases up to three initials are allowed.

Cited Reference Year. The two terminal digits of the cited reference year are the first item in the cited reference line. In *very rare* cases, use of only the two terminal digits may produce ambiguity, since "65" can mean 1765, 1865, 1965, etc. In such cases two different authors with the same last name and initials have published a century apart in the same or a different journal. The ambiguity is easily resolved by inspection of the volume numbers of the journal titles concerned. As noted, such ambiguities are extremely rare. Two asterisks (**) are used in place of the cited reference year digits in the case of undated items.

Cited Reference Publication Titles. Cited reference publications may be journals, books, reports of various kinds, proceedings of meetings and congresses, etc. In general, all punctuation, special symbols, diacritical marks, and the like, are ignored in transcribing the titles of reference publications.

Hyphens and apostrophes are dropped and the elements which they separated are fused. Easily understood abbreviations, many of them of one letter, are used for words which occur frequently in the titles of reference publications. For example, *T* is used for *Transactions, C* for *Congress, P* for *Proceedings.* A list of these abbreviations is found on the inside back cover of appropriate volumes of the *SCI.*

Roman numerals in titles are generally converted to their arabic equivalents, as are spelled-out numbers, both cardinal and ordinal.

Twenty characters are allowed for the title of a reference publication. Additional data necessary to identify a journal reference (e.g., section, class, series, part or supplement) are supplied. These elements (usually numbers, letters, or combinations of the two) appear at the end of the reference journal column. A supplement number is preceded by an "S". If more than one of these elements is present, they appear in the reference journal column reading from left to right in this order: series, part, supplement, class. An acronym is created consisting of the first letters of the words describing a series.

Special Non-Journal Abbreviations. When the titles of non-journal publications include numbers, or numbers combined with letters, the numbers or numbers and letters are brought to the front of the title field, and the rest of the title systematically abbreviated by truncating each word, as far as space permits, before the second independent vowel. Thus, "R. Lechner, HarvardComputational Laboratory, Cambridge, Mass., Progress Report B1–30, 1961" would be abbreviated "LECHNER R, 61 B130 HARV COMP LAB P."

Journal References. In journal references, the volume number takes precedence over issue number and appears immediately after the title abbreviation. An alphabetic character associated with a volume number is placed in front of it, as "B52". In cases such as *British Medical Journal* and *Lancet,* issue numbers appear in place of volume numbers when the latter are not given. An alphabetic character associated with a page number is placed in front of it; thus page 4A will appear as A4. Roman numerals are converted to their arabic equivalent preceded by the letter *R*; thus, xiii becomes R13. An unnumbered page is indicated by the number of the nearest numbered page preceded by the letter *U*. When, in references to books, a chapter is cited rather than a page, the chapter number preceded by *CH* is given in the page-number column.

Unification of Variant Reference Titles. Any reference may be cited in different ways; there is, especially, enormous

variation in the use of abbreviations for journal titles. In compiling the *SCI*®an attempt is made to identify different variations of the same citation by a computerized 'unification' of cited references. References are considered identical if they match on minimal distinctive citation data. The computer tallies variations in the presentation of authors and journals within each cluster of 'identical' references, selects the most frequently used, or in the case of ties, the longest version, thereby 'unifying' the reference. As a result, in most cases the common 'unified' reference will be listed only once, followed by the citations for the citing articles.

Source Index

The *Source Index* lists in alphabetic order the names of every author of every source item processed for the *SCI.* Full bibliographic data on each source item are given under the name of its first author. The names of all secondary authors are cross-referenced to that of the first author. An author's name appears only once, and beneath it are given first the one or more source items published by him during the year, and then cross-references to other source items of which he is a secondary author.

Under an author's name, source items for a particular year are listed in alphabetic order of journal title abbreviation. Each entry provides the following information: coauthors (a maximum of ten); a two-letter code for languages other than English; title of the article or an English translation of the title; journal title abbreviation; volume, page, year; code indicating type of source item (original article, letter, correction note, etc.); number of references provided by the source item; issue, part, or supplement number of the source journal.

The names of secondary authors are cross-referenced to a first author by a "see" reference. This reference includes not only the name of the first author but also the citation of the source item (journal title abbreviation, volume, page, year). As in the *Citation Index,* nine characters are allowed for surnames of citing authors; longer names are truncated by a period after the eighth letter of the name.

Anonymous source items appear at the beginning of the *Source Index* and are listed alphabetically by journal title abbreviation. Note that the title of the anonymous source item precedes the indented citation.

Authors' Names. The elements of compound names are fused; hyphens in compound names are dropped before fusing. Thus, *H. Avery Jones* appears as AVERYJONES H; *J. Smith-Wright,* as SMITHWRIGHT J. Conjunctions in compound names are not dropped; thus, *Jose Perez y Mendez* will appear as PEREZYMENDEZ J.

The treatment of particles in proper names is a difficult problem; in general the style of the author himself is followed, as far as it is possible to determine it. In general, this means that capitalized particles are treated as part of the last name and fused; non-capitalized particles are not considered part of the last name, and the initial letter of the particle, or of the first of several particles, will appear as an initial. Thus, *Robert La Follette* would appear as LAFOLLETTE R; while *Hermann Ludwig von Helmholtz* would appear as HELMHOLTZ HLV. The particles of Dutch names, whether capitalized or not, are generally considered part of the last name and are fused. Where there are particles of which some other than the first is capitalized, as in *Robert de La Salle,* the last name begins with the capitalized particle which is fused; thus LASALLE RD.

Names of religious are provided with an arbitrary *X* which appears as a second initial following the initial of the author's religious title. Thus, *Sister Mary Theresa* would appear as MARYTHERESA SX; *Mother Joseph Martyr* would appear as JOSEPHMARTYR MX.

Journal Title Abbreviations. The title of each source journal is abbreviated in the same way throughout the *SCI.* These abbreviations are limited to eleven characters (including spaces), and eliminate all diacritical marks, punctuation, etc. Nevertheless, care has been taken to make them as meaningful as possible. A list of abbreviations and full titles is given in this volume.

Supplements. In see-references, irregular supplements are indicated by an *S* in front of the volume number of the journal. The number of the supplement itself can be found under the appropriate first-author entry. Letters associated with volume and page numbers appear in front of them.

A *U* in front of a page number indicates that a source item begins on an unnumbered page near the numbered page given.

Language Abbreviations. The titles of source items written in languages other than English are translated into English. The language of the original is indicated by one of the following abbreviations, which appears in parentheses in front of the title translation:

AF	Afrikaans	IT	Italian
BU	Bulgarian	JA	Japanese
CH	Chinese	NO	Norwegian
CZ	Czech	PL	Polish
DA	Danish	PT	Portugese
DU	Dutch	RM	Rumanian
FI	Finnish	RS	Russian
FL	Flemish	SC	Serbo-Croatian
FR	French	SK	Slovakian
GA	Gaelic	SN	Slovenian
GE	German	SP	Spanish
HE	Hebrew	SW	Swedish
HU	Hungarian	UK	Ukrainian

A source item with sections in various languages is given the code *XX.*

Source Index

To locate a full description of a source item, look up the first author. Under a given name, journal articles of primary authorship are described first. Items of secondary authorship follow. These are cross-referenced to the first author whose name follows the word SEE.

Codes indicating type of source item:
Blank articles, reports, technical papers, etc.
A abstracts of published items
C corrections, errata, etc.
D discussions, conference items
E editorials, editorial-like items
I items about individuals (tributes, obituaries, etc.)
L letters, communications, etc.
M abstracts from meetings
N technical notes
Q bibliography for SCI supplied after primary publication, by source author
R reviews & bibliographies
First Source author
Coauthors
NB: Source citations follow the pertinent source titles
C.T. Dollery is first author of these Source items.
C.T. Dollery is one of secondary authors of these Source items.
Cross-referenced secondary author
First Source authors
Source journal
Source journal volume
Source journal page
Source journal year
Language code
Number of reference citations
Issue number
DOLLEAR FG
see MANN GE J AM OIL CH 47 173 70
see RAYNER ET " 47 26 70
DOLLERY CT
DAVIES DS—CONDUCT OF INITIAL DRUG STUDIES IN MAN
BR MED BULL 26 233 70 10R 3
PATERSON JW—PROPRANOLOL IN HYPERTENSION
BR MED J 2 236 70 L 2R N5703
DIFFERENCES IN METABOLISM OF DRUGS IN MAN DEPENDENT ON ROUTE OF ADMINISTRATION
DRUG INTEL 4 348 70 M NO R N12
DRAFFAN GH DAVIES DS WILLIAMS FM CONOLLY ME—BLOOD CONCENTRATIONS IN MAN OF FLUORINATED HYDROCARBONS AFTER INHALATION OF PRESSURISED AEROSOLS
LANCET 2 1164 70 3R N7684
ADVANCES IN TREATMENT OF HYPERTENSION
PRACTITION 205 486 70 14R N1228
see BLACKWEL.EW BR J PHARM 39 P194 70
see BRECKENR.A Q J MED 39 411 70
see BULPITT CJ CARDIO RES 4 207 70
see " " 4 520 70
see CONOLLY ME CLIN SCI 38 P 10 70
see HELLER H BR MED J 4 233 70
see KOHNER EM AM J OPHTH 69 778 70
see " BR MED BULL 26 166 70
see " DIABETES 19 703 70
see NEALE G BR MED J 3 207 70
see WARRELL DA " 1 65 70
DOLLET J
see BASTIEN PG METAL CONST 2 9 70
see MAYNIER P REV METALL 67 343 70
see PONT G MEM S R MET 67 629 70
DOLLEZHA.NA
ALESHCHE.PI EVDOKIMO.YV EMELYANO.IY IVANOV BG KOCHETKO.LA MINASHIN ME MITYAEV YI NEVSKII VP SHASHARI.GA—OPERATING EXPERIENCE WITH BELOYARSK NUCLEAR POWER STATION
SOV AT EN R 27 1153 69 11R 5
DOLLFUS A
COFFEEN DL—POLARIZATION OF VENUS .1. DISK OBSERVATIONS
ASTRON ASTR 8 231 70 12R 2
FRYER R TITULAER C—(FR) PRIMITIVE ATMOSPHERE OF PLANET MARS ACCORDING TO PHOTOGRAPHS TRANSMITTED BY INTERPLANETARY PROBES MARINER-6 AND MARINER-7
CR AC SCI B 270 424 70 4R N6
FRYER R TITULAER C--(FR) PRIMITIVE ATMOSPHERE OF PLANET MARS ACCORDING TO PHOTOGRAPHS TRANSMITTED BY INTERPLANETARY PROBES MARINER-6 AND MARINER-7
CR AC SCI B 270 424 70 4R N6
(FR) SURFACE ANOMALIES IN HELLAS REGION OF MARS SURFACE
CR AC SCI B 270 641 70 7R N9
(FR) OPTICAL DETERMINATION OF SPHERICAL DIMENSIONS OF PLANET MARS
CR AC SCI B 271 1041 70 15R N20
NEW OPTICAL MEASUREMENTS OF DIAMETERS OF JUPITER, SATURN, URANUS, AND NEPTUNE
ICARUS 12 101 70 5R 1
see GEAKE JE SCIENCE 167 717 70
see HEDEN C ICARUS 11 221 69
DOLLFUS DS
see VITREY M REV NEUROL 122 528 70
DOLLFUS RP
(FR) ON SOME TETRARHYNCH CESTODES (HETERACANTHES AND PECILACANTHES) COLLECTED FROM MEDITERRANEAN FISHES
VIE MILIE A 20 491 69 10R 3

Source Type Code. Source items are coded to indicate type of material. The codes are single letters which appear after the two-digit year indicator. The codes are:

Blank	articles, reports, technical papers, etc.
A	abstracts of published items
C	corrections, errata, etc.
D	discussions, conference items
E	editorials, editorial-like items
I	items about individuals (tributes, obituaries, etc.)
L	letters, communications, etc.
M	proceedings from meetings
N	technical notes
Q	bibliography for *SCI*® supplied after primary publication, by source author
R	reviews & bibliographies

Corporate Index

The *Corporate Index* lists alphabetically by their authors' organizational affiliations the citations for all source items processed during the year. Where a single source item reports the work of authors at different organizations, the source item citation will be found under the names of both organizations, but the citation will give, as elsewhere in the *SCI,* the name of the first author only.

Organizational Subdivisions. Subdivisions of an organization are described in descending order of magnitude, e.g., university, college, department, laboratory.

Abbreviations. Generally accepted abbreviations and acronyms are used wherever possible for the names of organizations (e.g., IBM, RCA, MIT). In addition, commonly occurring words in the names of organizations are abbreviated, as follows:

Academy	AC	Hospital	HOSP
Akademie	AK	Institute	I
Administration	ADM	Incorporated	INC
Agriculture	AGR	International	INT
Authority	AUTH	Kongress	K
Building	BLDG	Klinik	KLIN
Bureau	BUR	Laboratory	LAB
Center	CENT	Limited	LTD
Central	CENTER	Medical	MED
Clinic	CLIN	Mount	MT
Company	CO	National	NAT
College	COLL	Research	RES
Corporation	CORP	School	SCH
Council	COUNC	Section	SECT
Department	DEP	Service	SERV
Division	DIV	Saint	ST
Establishment	EST	Technische Hochschule	TH
Foundation	F	Technological University	TU
Faculty	FAC	University	U
Fakultat	FAK		
General	GEN		
Hopital	HOP		

Geographical Abbreviations. The following geographical abbreviations are used (though where space permits some may be expanded for purposes of clarification):

Alabama	Ala	New Hampshire	NH
Alaska	Alaska	New Jersey	NJ
Arizona	Ariz	New Mexico	N Mex
Arkansas	Ark	New South Wales	NSW
California	Calif	New York	NY
Colorado	Colo	New Zealand	NZ
Connecticut	Conn	North Carolina	NC
Delaware	Del	North Dakota	N Dak
District of Columbia	DC	Ohio	Ohio
Florida	Fla	Oklahoma	Okla
Georgia	Ga	Oregon	Ore
Great Britain	GB	Pennsylvania	Pa
Hawaii	Hawaii	Rhode Island	RI
Idaho	Idaho	South Carolina	SC
Illinois	Ill	South Dakota	S Dak
Indiana	Ind	Soviet Union	USSR
Iowa	Iowa	Tennessee	Tenn
Kansas	Kans	Texas	Tex
Kentucky	Ky	United Arab Republic	UAR
Louisiana	La	United Kingdom	UK
Maine	Maine	United States	US
Maryland	Md	United States of America	USA
Massachusetts	Mass	Utah	Utah
Michigan	Mich	Vermont	Vt
Minnesota	Minn	Virginia	Va
Mississippi	Miss	Washington	Wash
Missouri	Mo	West Virginia	W Va
Montana	Mont	Wisconsin	Wis
Nebraska	Nebr	Wyoming	Wyo
Nevada	Nev		
Newfoundland	NF		

Permuterm Subject Index

The *Permuterm*®*Subject Index (PSI)* is a permuted title-word index to the more than 2200 journals processed for the *Science Citation Index*®. In *PSI,* every significant word in a title is paired with every other significant word to produce for each annual index more than 10 million word pairs. *PSI* is, thus, a "natural language" indexing system. A natural language indexing system is one based on the language used by *authors* in contrast to that used by indexers, and as such has many advantages. If the reader recalls the title of a paper but not its author, a natural language index enables him to determine easily the complete identification of the paper: author, journal, volume, and page. For a partially remembered title, one or two words will also help retrieve the full title. Furthermore, if one knows a particular scientific or technical term is used, a natural language system such as *Permuterm* will permit access directly through this known term.

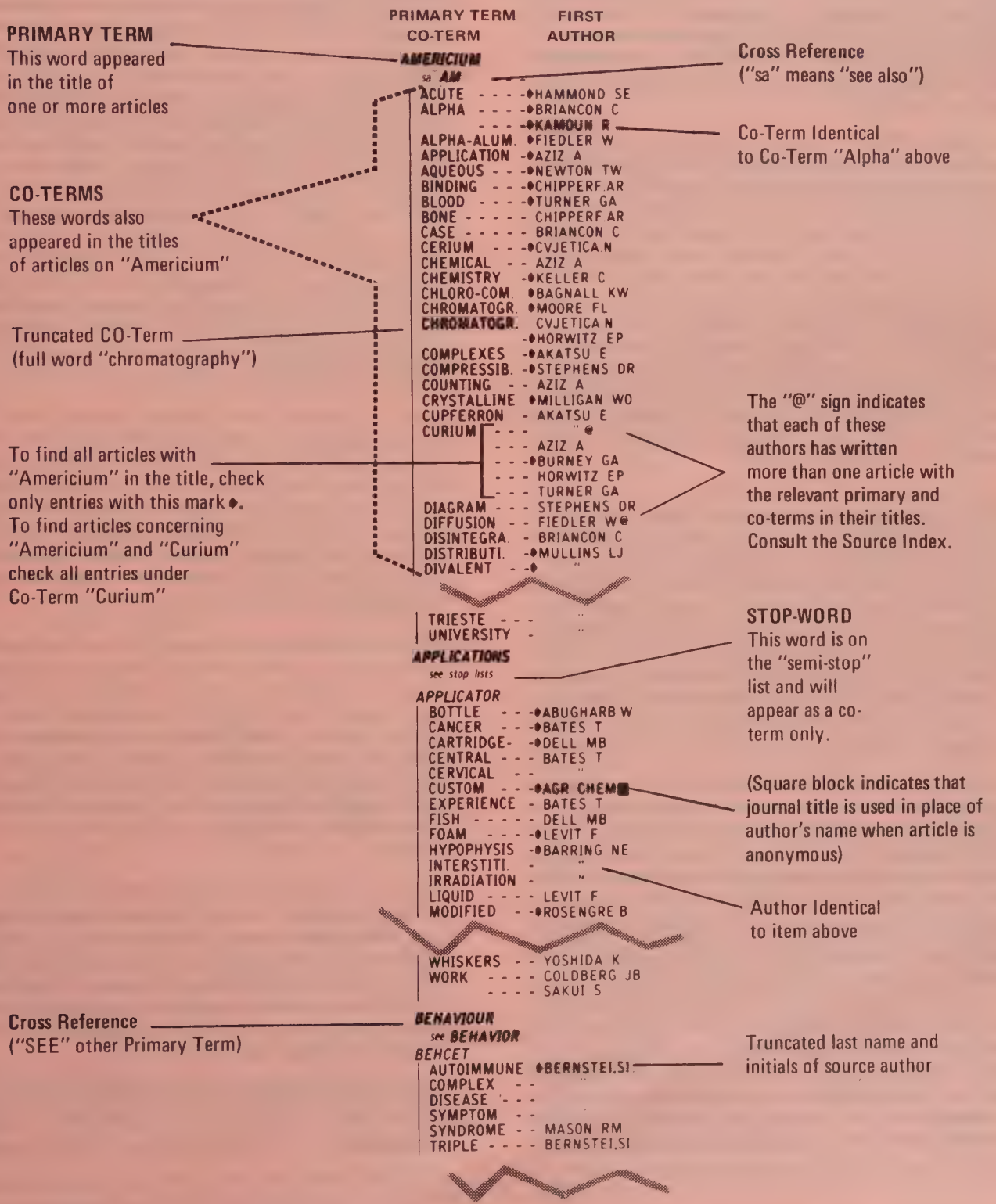
In addition to its independent utility, *PSI* can serve to facilitate entry into the *Citation Index (CI)* section of the *Science Citation Index*. If a relevant starting reference is not already known, one can be found through a keyword in *PSI*. For this type of search it makes sense to start in an earlier edition of *PSI* and *CI*. Then the *CI* can lead the user to more recent works which cite the starting reference.

Natural language indexing systems tend to be "self-correcting." Since they are based on current usage, natural language indexes change as the language of science evolves. Terms tend to be modified by experience and by more pre-

PERMUTERM® SUBJECT INDEX

To find articles on a specific topic:

1. Locate any one of the words (Primary Terms) that describes the topic. If you want every title that includes that primary term, select only the articles marked with an arrow (- - -♦). This eliminates unnecessary lookups.
2. To narrow selection, use any of the other words (Co-Terms) listed below that Primary Term. When using co-terms always disregard arrows.
3. Using authors' names consult the Source Index for the full titles and bibliographic data.


PRIMARY TERM
CO-TERM
FIRST AUTHOR
PRIMARY TERM
This word appeared in the title of one or more articles
CO-TERMS
These words also appeared in the titles of articles on "Americium"
Truncated CO-Term
(full word "chromatography")
To find all articles with "Americium" in the title, check only entries with this mark ♦.
To find articles concerning "Americium" and "Curium" check all entries under Co-Term "Curium"
Cross Reference
("SEE" other Primary Term)
Cross Reference
("sa" means "see also")
Co-Term Identical to Co-Term "Alpha" above
The "@" sign indicates that each of these authors has written more than one article with the relevant primary and co-terms in their titles. Consult the Source Index.
STOP-WORD
This word is on the "semi-stop" list and will appear as a co-term only.
(Square block indicates that journal title is used in place of author's name when article is anonymous)
Author Identical to item above
Truncated last name and initials of source author
AMERICIUM
sa AM
ACUTE - - - -♦HAMMOND SE
ALPHA - - - -♦BRIANCON C
- - - -♦KAMOUN R
ALPHA-ALUM. ♦FIEDLER W
APPLICATION -♦AZIZ A
AQUEOUS - - -♦NEWTON TW
BINDING - - -♦CHIPPERF AR
BLOOD - - - -♦TURNER GA
BONE - - - - - CHIPPERF AR
CASE - - - - - BRIANCON C
CERIUM - - -♦CVJETICA N
CHEMICAL - - AZIZ A
CHEMISTRY -♦KELLER C
CHLORO-COM. ♦BAGNALL KW
CHROMATOGR. ♦MOORE FL
CHROMATOGR. CVJETICA N
-♦HORWITZ EP
COMPLEXES -♦AKATSU E
COMPRESSIB. -♦STEPHENS DR
COUNTING - - AZIZ A
CRYSTALLINE ♦MILLIGAN WO
CUPFERRON - AKATSU E
CURIUM - - - "@
- - - AZIZ A
- - -♦BURNEY GA
- - - HORWITZ EP
- - - TURNER GA
DIAGRAM - - - STEPHENS DR
DIFFUSION - - FIEDLER W@
DISINTEGRA. - BRIANCON C
DISTRIBUTI. -♦MULLINS LJ
DIVALENT - -♦ "
TRIESTE - - - "
UNIVERSITY - "
APPLICATIONS
see stop lists
APPLICATOR
BOTTLE - - -♦ABUGHARB W
CANCER - - -♦BATES T
CARTRIDGE- -♦DELL MB
CENTRAL - - - BATES T
CERVICAL - - "
CUSTOM - - -♦AGR CHEM
EXPERIENCE - BATES T
FISH - - - - - DELL MB
FOAM - - - -♦LEVIT F
HYPOPHYSIS -♦BARRING NE
INTERSTITI. - "
IRRADIATION - "
LIQUID - - - - LEVIT F
MODIFIED - -♦ROSENGRE B
WHISKERS - - YOSHIDA K
WORK - - - - COLDBERG JB
- - - - SAKUI S
BEHAVIOUR
see BEHAVIOR
BEHCET
AUTOIMMUNE ♦BERNSTEI,SI
COMPLEX - - "
DISEASE - - - "
SYMPTOM - - "
SYNDROME - - MASON RM
TRIPLE - - - - BERNSTEI,SI

cise understanding of the phenomena and concepts they symbolize.

Since the *PSI* is based on natural language, many millions of useless entries would be produced unless human decisions were made to suppress certain terms that have no practical semantic value. Thus, words like *the, an, which,* etc., rarely make useful primary or secondary indexing terms. However, once a basic list of such obvious "stop" words has been established, it becomes increasingly difficult to decide what other terms should be suppressed. These decisions are economic as well as semantic because any term, alone or in combination, may be useful to some reader in a given search situation. A "stop" list is necessary but must be carefully constructed. In *PSI* we have retained terms that most traditional systems would have rejected.

The most significant distinction of the "stop" list policy of the *PSI* is the difference between terms which are completely suppressed (full-stop) and terms which are partially suppressed (semi-stop). Semi-stop words are suppressed as primary terms but not as secondary or co-terms. This important distinction provides a major advantage over single-entry systems. Thus, in *PSI* there are many terms, such as *behavior,* which are never suppressed even though they may be suppressed in "KWIC" (key-word-in-context) indexes, etc. *PSI* also retains as co-terms useful words like "methods" and "analysis" that are also completely suppressed as indexing entries in most "KWIC" indexes. In *PSI,* therefore, one can find useful combinations of these very broad terms with other terms. Words which have been so treated have been designated as "semi-stop" words.

Every indexing system has its limitations. *Permuterm* is no exception. By keeping these limitations in mind, the user will avoid disappointments. The use of natural language inescapably introduces a type and degree of ambiguity that is not seen in the *Citation Index.* The "noise" that may result from these ambiguities can usually be eliminated by use of the *Source Index* before consulting the original article. In the *Source Index* the user will be able to inspect the terms in their original context and quickly resolve such ambiguities. In addition, other relevant articles by the same authors may be found while using the *Source Index* to obtain the full bibliographic details of items identified in the search.

It is important for the user to remember that natural language indexing requires him to be mindful of the variety of not only the scientific vocabulary, but of the variety of the English language itself. An attempt has been made to eliminate spelling variations, but the user must consult synonymous, near-synonymous and related terms; for example:

ADENOSINE TRIPHOSPHATE (ADENOSINE-TRIPHOSPHATE, ATP); BUTADIENE (BUTA-1,3-DIENE); COPPER-NICKEL (NICKEL-COPPER); BLATTARIA (COCKROACH); ANTINEOPLASTIC (TUMOR, INHIBITION, ANTI-ONCOGENIC, CARCINOSTATIC); BIRTH (PARTURITION, LABOR, DELIVERY); etc. In many cases a special computer-assisted edit has been performed to modify or cross-reference many equivalent terms. This departure from "pure" natural-language indexing has been made only where there is little chance of losing useful information. To a large extent, British or other spelling variants of the same word have been replaced by their American forms, thus avoiding "double lookups" under terms such as tumor and tumour, aluminum and aluminium, cecum and caecum, etc.

It has been noted that certain frequently used word phrases would be more useful as indexing terms in *PSI* if the component words were kept together rather than allowed to permute separately. These phrases have been identified by extensive analysis of ISI's statistics on word frequencies. A computerized system has been developed to hyphenate these selected word phrases so that they will appear as single terms, thus considerably reducing look-up time during searches where more than two coordinations are required. Examples of such word phrases are GUINEA-PIG, ESCHERICHIA-COLI, NEW-YORK, ANALOG-COMPUTER. When necessary a cross-reference has been provided to lead the user from the second word of the word phrase to the word phrase (COMPUTER SA ANALOG-COMPUTER). In other cases, where the usage of a fused word is substantial, hyphenated words have been changed to fused words, (VIET-NAM to VIETNAM). Many words have been, however, retained in both their fused and hyphenated forms and as two separate words, so that the user should, for example, search not only under the hyphenated primary term ALPHA-ADRENERGIC, but also seek out ALPHA as a co-term under the primary term ADRENERGIC.

Another departure from natural language is the use of English translations rather than the vernacular titles of articles written in other languages. Few translations are perfect, but in the sciences and particularly for the benefit of *PSI,* we believe our users are best served by a single language. In addition, *PSI* can be effectively used to help construct word profiles for selective dissemination of information *(SDI)* services such as ISI's *Automatic Subject Citation Alert (ASCA®).*

The *PSI* was designed to overcome certain shortcomings characteristic of most indexes. For example, selective discipline policies of an index might make a user wary of any literature search. The interdisciplinary nature of the *Science Citation Index®* system, which includes *PSI,* and the *SCI®* policy of indexing all articles, letters, discussions, corrections, etc., regardless of discipline, prevents any coverage gaps in indexing of key journals. Such gaps have been revealed in numerous studies of traditional word indexes.

Another source of difficulties in traditional systems is their use of "controlled" thesauri or subject heading authority lists, which tend to group large numbers of articles under broad generic terms, making more specific searches time-consuming and occasionally impossible. Furthermore, authority lists are made obsolete by each deluge of publications on new topics not previously anticipated, or old topics thought no longer important.

For the user's convenience, the paragraphs below summarize the editorial conventions and formatting of the *PSI.*

Arrangement. In *PSI,* every significant word in an article's

title is paired with every other significant word. One of these words becomes a primary term, the other a co-term listed under the primary term. The *PSI* is arranged alphabetically by primary terms (numbers follow the letter Z), with all co-terms listed alphabetically under each primary term. Thus, with the exceptions noted below under "Semi-Stop Words", all co-terms appear in the alphabetic listing as primary terms. Opposite each co-term is the name of the author of an article whose title includes the words represented by the pair of primary and co-terms. The article in question can be completely identified by looking up the appropriate author's name in the *Source Index* section of the *Science Citation Index*.®

Word Definition. A word or term is defined as a sequence of one or more characters preceded and followed in an article's title by blank spaces. Parentheses and brackets at the beginning or end of such a sequence of characters are removed in construction of the index, but parentheses or brackets occurring within the sequence of characters are retained.

All journal article titles are examined by editors before keypunching. Certain minor changes are made to improve the title words as search terms for *PSI*. Greek letters and other special symbols are spelled out. Place names and genus-species names are hyphenated. Isotopes always appear with the number following and hyphenated to the word or symbol, for example: CARBON-14 and C-14.

Word Length. Primary terms are limited to 18 characters. When a primary term exceeds 18 characters, the word is truncated, and truncation is indicated by a period in place of the eighteenth character. Thus, IMIDAZOLE-CONTAIN. appears as the truncated form of IMIDAZOLE-CONTAINING used as primary term. Co-terms are limited to 11 characters. When they exceed 11 characters they are similarly truncated, and truncation indicated by a period in place of the eleventh character. Thus, PSYCHOSOMA. appears as the truncated from of PSYCHOSOMATIC used as a co-term.

Full-Stop Words. As indicated above, full-stop words are eliminated from indexing as either primary or co-terms. Such full-stop words are eliminated because they have in themselves little or no meaning, and are generally useless in either formulation or conduct of a search. A list of full-stop words appears on page 7 of volume 7 of the *Science Citation Index*.

Semi-Stop Words. As indicated above, semi-stop words are eliminated as primary terms, but retained as co-terms. In general, semi-stop words are those which in formulation or conduct of a search take on useful meaning only in association with a more specific term. For example, PREPARATION is a semi-stop word. If interested in such a subject as preparation of steroids, the searcher should look under the primary term STEROIDS to find entries of the co-term PREPARATION. A list of semi-stop words appears on pages 7 and 8 of volume 7 of the *Science Citation Index*.

Stop-Word Pairs. A limited number of words, though meaningful individually as primary and co-terms, produce word pairs of limited retrieval value. For example, although both BRIEF and COMMUNICATION appear as primary terms, and as co-terms of other primary terms, they are when paired with each other generally useless in retrieval. Such word pairs have been eliminated. A list of stop-word pairs appears on page 8 of volume 7 of the *Science Citation Index*.

Authors' Names. The last name and the initials of the appropriate author stand opposite the co-term. Ditto marks are used in place of the author's name when successive co-terms come from the same title. Authors' last names are limited to 9 characters. When a last name exceeds 9 characters, it is truncated and a period appears in the ninth position. Thus, EISENHOW. would appear as the truncated form of EISENHOWER.

Anonymous Entries. The abbreviation of a journal's title appears instead of an author's name in the case of anonymous source items. This use of the journal title enables the user to identify the article in question by consulting the *Anonymous Section* of the *Source Index* of the *Science Citation Index*.®

Unique Article Indicator. To facilitate searches in which the user wishes to identify every article indicated under a primary term, a solid arrowhead appears in front of authors' names the first time they appear under that primary term. By looking up only authors' names indicated by the arrowhead the user will identify all articles in whose titles the primary term appeared while avoiding repetitive examination of the same title.

Co-term Unification. It frequently happens that an author will publish two or more papers on the same subject. Their titles, therefore, are likely to include many of the same words, which, in construction of the *PSI*, will result in identical primary/co-term pairs. Rather than repeat the co-term and author's name under the primary term in such cases, the duplicate co-terms and names are dropped. An *at* sign (@) follows the author's name in such cases to alert the user to the fact that he should look for more than one article by that author in the *Source Index*.

Cross References. In order to help the user identify synonyms and spelling variations, hundreds of SEE and SEE ALSO cross-references have been added to *PSI;* for example: FOETAL see FETAL, OESTROGEN see ESTROGEN, CALCIUM see also CA, EPINEPHRINE see also ADRENALINE. Considering the dynamic quality of natural language as reflected in *PSI*, it is impossible to provide cross references for all possible synonyms. The user must always be mindful of the variety of scientific vocabulary and the need to search for related terms, in particular, terms with the same root but different endings, which usually appear close together in *PSI*.

Co-term Deletion. All co-terms are deleted under a primary term which refers to three articles or less. The authors' names will appear directly under the primary term. Coordination of terms is of minimal value when the primary term is of very low frequency, since it is a simple matter to consult the *Source Index* for the full title of the few articles concerned. This convention substantially decreases the bulk of *PSI*.

Terminology & Definitions

Citation. In general, the outcome of reference (see *Reference,* below). When one document (B) mentions, or makes reference to another document (A), the latter has been cited by the former, as a source of information, as support for a point of view, as authority for a statement of fact, etc. The word *citation* is used not only for the fact that document A has been cited in reference, but also for the description of document A provided to effect the citation (as 52 Lederberg J, *J. Bact.,* 63, 399). In this sense, *citation* and *reference* are frequently used interchangeably to mean the "address" or "identification" of the document in question.

Citation Index. One of the basic sections of the *SCI.*® The *Citation Index* is an alphabetic list, arranged by first author, of references given in bibliographies and footnotes of source articles, each reference followed by brief descriptions (citations) of the source articles which cite it. The *Citation Index* contains a *Patent Citation Index* in which cited patents are listed by number rather than by name of inventor or assignee.

Corporate Index. See **Source Index.**

Co-Term. In the *Permuterm*® *Subject Index,* any word from a source-article title that has been paired with, and listed under another word from the title, the latter appearing as the main *PSI* entry. Most co-terms also appear as primary terms (see *Primary Term,* below).

First Author. That author, out of two or more, whose name is given first in statements of multiple authorship; called also *primary* author, and sometimes (confusingly) *senior* author. Entries in the *Citation Index* and *Source Index* are arranged by first author.

Patent Citation Index. See **Citation Index.**

Permuterm® Subject Index. An alphabetic subject index derived from words in the titles of source articles. Every significant word in a title is paired with all other significant words, and reference made from each pair to the author of a source article.

Primary Term. In the *Permuterm Subject Index,* any word from a source-article title that appears as a main entry in the alphabetic list of terms. From the user's point of view the primary term is that selected for initial research.

Reference. The mention or description of one document (A) in another (B), to indicate a source of information, to provide support for a point of view, to lend authority to a statement of fact, etc. Document B is said to make reference to document A; Document A is said to be cited by document B. *Reference* is also used for the description given in making reference (as 52 Lederberg J, *J. Bact.,* 63, 399). Reference is made; i.e., references are given, in footnotes and more frequently in bibliographic listings at the end of an article. References, in this sense, are extracted to produce the *Citation Index.*

Reference Author. The author of an item to which reference is made; the author of an item cited by a source author; a cited author.

Reference volume, page, year, etc. The volume number, page number, year of publication, etc., named in a reference from a source article; used in distinction to source volume, source page, source year, etc.

Science Citation Index® (SCI®). A calendar-year index to scientific literature published by the Institute for Scientific Information, Inc. The *SCI* has three basic sections: the *Citation Index,* the *Source Index,* and the *Permuterm Subject Index.* The *SCI* is published quarterly and cumulated annually and quinquennially.

Secondary Author. In statements of multiple authorship, any author except the first-named; called also coauthor. In the *Source Index,* secondary authors are cross-referenced to first authors.

Source. Called also source document, source article, source item, etc.; an item published in one of the scientific journals processed for the *SCI.* Source items may be original substantive articles, editorials, letters, reports of meetings, correction notes, reviews, etc. From the references given in a source item citations are extracted to prepare the *Citation Index;* bibliographic descriptions of source items are prepared for the *Source Index;* and words from the titles of source items are paired for production of the *Permuterm Subject Index.*

Source Author. The author of a source item, used in distinction to a reference or cited author.

Source Index. One of the basic sections of the *SCI.* The *Source Index* gives a complete bibliographic description of all source items processed for the *SCI.* Items are arranged alphabetically by first author; all coauthors are cross-referenced to first authors. The *Source Index* contains a *Corporate Index* in which citations of source items are arranged by the organizational affiliations of their authors.

Source Journal. One of the scientific journals processed for production of the *SCI,* so-called because the journal contains source items.

Stop-Words. In the *Permuterm Subject Index,* words from source-article titles that are eliminated as indexing entries. *Full* stop-words (like *the, which*) are eliminated as either main entries (primary terms), or subordinate entries (co-terms). *Semi* stop-words are eliminated as main entries (primary terms), but permutted as co-terms (secondary entries). Stop-word pairs are words which may appear as either primary terms or co-terms except in conjunction with each other, when they are eliminated in both cases (as *brief* and *communication).*

Conventions Used in the Citation Index

AUTHORS' NAMES

The elements of compound names are fused; hyphens in compound names are dropped before fusing. Thus, *H. Avery Jones* appears as *AVERYJONES H; J. Smith-Wright,* as *SMITHWRIGHT J.* Conjunctions in compound names are not dropped; thus, *Jose Perez y Mendez* will appear as *PEREZYMENDEZ J.*

The treatment of particles in proper names is a difficult problem; in general the style of the author himself is followed, as far as it is possible to determine it. In general, this means that capitalized particles are treated as part of the last name and fused; non-capitalized particles are not considered part of the last name, and the initial letter of the particle, or of the first of several particles, will appear as an initial. Thus, *Robert La Follette* would appear as *LAFOLLETTE R;* while *Hermann Ludwig von Helmholtz* would appear as *HELMHOLTZ HLV.* The particles of Dutch names, whether capitalized or not, are generally considered part of the last name and are fused. Where there are particles of which some other than the first is capitalized, as in *Robert de La Salle,* the last name begins with the capitalized particle which is fused; thus *LASALLE RD.*

Names of religious are provided with an arbitrary X which appears as a second initial following the initial of the author's religious title. Thus, *Sister Mary Theresa* would appear as *MARYTHERESA SX; Mother Joseph Martyr* would appear as *JOSEPHMARTYR MX.*

YEAR

Note that only the last two digits of the reference year are processed and, therefore, the century is not specified.

REFERENCE PUBLICATION

The following list of abbreviations are substituted for the corresponding words when describing the title of the reference publication.

B - Bulletin, Bolletin
C - Congress, Conference
CENT - Center
CO - Company
DEP - Department
F - Foundation
I - Institute
INT - International
J - Journal
K - Kongress
LTD - Limited
M - Meeting
P - Proceedings
S - Symposium
SCH - School
T - Transactions
U - University
Z - Zeitschrift
ZH - Zhurnal

When the reference publication is a numbered meeting, technical report or such, the identifying number or acronym number combination is presented first, and the rest of the information systematically abbreviated.

SYSTEMATIC ABBREVIATION

This abbreviation consists of truncating each word just short of the second vowel group.

VOLUME AND PAGE

Note that whenever letters are presented with volume or with page numbers the alphabetical information always precedes the numbers.

In the source page field

S - signifies supplement
U - signifies unnumbered page and the nearest numbered page is indicated
R - indicates a Roman numeral page converted here to Arabic numerals

TYPE OF SOURCE ITEM

Each source item in the *Citation Index* is categorized by an arbitrary code appearing immediately before the source year. Since they are the most frequent, a *Blank* code is given for those source items which are the usual type of original article, report or paper. The codes for other types of sources are:

A - *Abstracts*--identifies a journal feature containing abstracts of items published elsewhere
C - *Corrections*--identifies corrections of previously published material; includes errata
D - *Discussions*--includes discussions involving individuals; including post-paper discussions, round table symposia, clinical conferences, etc.
E - *Editorials*--covers editorials and nondescript editorial-like items, such as addresses by chairmen of societies, summaries of the results of a meeting, etc.
I - *Individuals*--items such as substantive obituaries, awards, tributes, biographies, etc.
L - *Letters*--letters to the editor, communications, preliminary communications and similar correspondence
M - *Meetings*--items reported in proceedings from meetings, including preliminary abstracts
N - *Notes*--the type of brief article so designated by the journal including some communications
Q - *Bibliography*--supplied for SCI after primary publication by source author
R - *Reviews*--pertains to certain bibliographies and surveys

Conventions Used in the Source Index

AUTHORS' NAMES

The elements of compound names are fused; hyphens in compound names are dropped before fusing. Thus, *H. Avery Jones* appears as *AVERYJONES H; J. Smith-Wright,* as *SMITHWRIGHT J.* Conjunctions in compound names are not dropped; thus, *Jose Perez y Mendez* will appear as *PEREZYMENDEZ J.*

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VOLUME AND PAGE

Note that whenever letters are presented with volume or page numbers the alphabetical information always precedes the numbers.

In the source page field

S - signifies supplement

U - signifies unnumbered pages and the nearest numbered page is indicated

R - indicates a Roman numeral page converted here to Arabic numerals

ARTICLE TITLES

In transcribing the titles of articles, diacritical marks are ignored, and the article "the" is dropped. With one exception, all punctuation, such as semicolons, colons, question marks, etc., used to indicate a break between parts of a title is replaced by a dash preceded and followed by a space. When a numeral is used to indicate a subtitle of one of a series of articles, the numeral is retained, preceded and followed by a period (in such cases, Roman numerals are replaced by their arabic equivalents). All other punctuation marks, except where used in technical notation, are dropped. Spelled out cardinals and ordinals are replaced by arabic numbers, with the exception of "first". Greek letters, whether standing alone or in technical notation, are spelled out.

When processing source article, the conventions adopted in this index are:

	represents	
◆◆		Squared brackets
←		Arrow to the left
→		Arrow to the right
*		Asterisk
–		Minus sign, hyphen, dash or colon
=		Equal sign, double, triple bonds, etc., e.g., HC≡CH becomes HC=CH
BAR		Super bar, e.g., $\bar{K}$ becomes KBAR
DEGREES		Degree symbol, e.g., 32°C. becomes 32 DEGREES C.
A–4		A minus 4, or A^{-4}
A4		A4, or A_4, or A^4
CU65(P,PN)CU64		Superscript terms, e.g., Cu^{65} (p,pn)Cu^{64}
BETAN		Subscript terms, e.g., β_n
NA23/40		Super- and subscript terms, e.g., Na^{23}_{40}

TYPE OF SOURCE ITEM

Each source item in the *Citation Index* is categorized by an arbitrary code appearing immediately before the source year. Since they are the most frequent, a *Blank* code is given for those source items which are the usual type of original article, report or paper. The codes for other types of sources are:

A - *Abstracts*--identifies a journal feature containing abstracts of items published elsewhere

C - *Corrections*--identifies corrections of previously published material; includes errata

D - *Discussions*--includes discussions involving individuals; including post-paper discussions, round table symposia, clinical conferences, etc.

E - *Editorials*--covers editorials and nondescript editorial-like items, such as addresses by chairmen of societies, summaries of the results of a meeting, etc.

I - *Individuals*--items such as substantive obituaries, awards, tributes, biographies, etc.

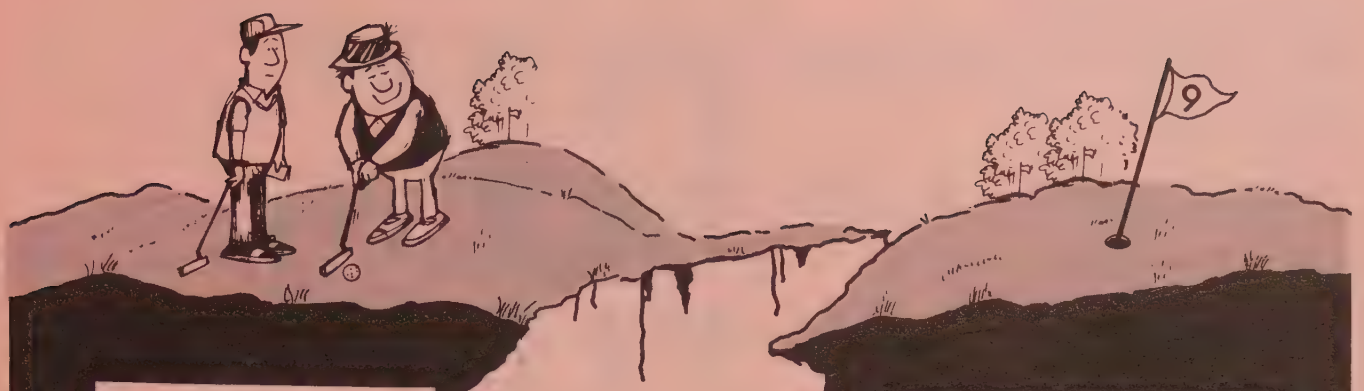
L - *Letters*--letters to the editor, communications, preliminary communications and similar correspondence

M - *Meetings*--items reported in proceedings from meetings, including preliminary abstracts

N - *Notes*--the type of brief article so designated by the journal including some communications

Q - *Bibliography*--supplied for SCI after primary publication by source author

R - *Reviews*--pertains to certain bibliographies and surveys



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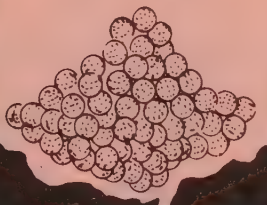

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SCIENCE CITATION INDEX® 1961 and 1963-1972
COMPARATIVE STATISTICAL SUMMARY

	1961	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Source Journals	613	610	700	1,146	1,573	1,711	1,968	2,180	2,192	2,277	2,425
Source Journal Issues	5,031	5,505	5,497	9,432	12,444	13,815	15,911	17,761	17,992	18,976	19,384
Source Journal Items	113,318	129,148	151,639	235,801	273,870	304,099	308,536	341,430	361,875	364,490	377,614
Anonymous Source Journal Items	3,360	4,101	9,500	14,500	13,161	15,033	8,095	13,033	11,320	9,639	10,191
Citations to Journal Items	1,148,000	1,219,821	1,424,947	2,144,103	2,383,084	2,632,872	2,902,358	3,067,384	3,231,992	3,445,998	3,645,017
Citations to Patents		5,396	11,575	208,240	10,826	14,444	15,570	15,485	11,425	15,783	17,048
Citations to Non-Journal Items	222,000	333,583	353,231	572,597	680,096	739,823	780,787	766,846	864,530	917,924	997,050
Total Citations from Source Journal Items	1,370,000	1,558,800	1,789,753	2,924,940	3,074,006	3,387,139	3,698,715	3,849,715	4,107,947	4,379,705	4,659,115
Citations to Authored Items*	1,349,800	1,531,200	1,742,896	2,663,806	3,014,737	3,319,546	3,626,027	3,777,272	4,041,165	4,302,885	4,579,183
Citations to Anonymous Items	20,200	22,204	35,282	52,894	48,443	53,149	57,118	56,958	55,357	61,037	62,884
Unique Authored Items Cited*	890,000	970,216	1,092,384	1,616,987	1,820,877	1,994,120	2,138,526	2,261,839	2,340,128	2,449,573	2,596,663
Citations per Authored Items Cited	1.52	1.58	1.60	1.65	1.65	1.66	1.67	1.67	1.73	1.76	1.76
Unique Reference Authors Cited*	258,000	281,296	323,889	438,915	473,658	510,113	546,567	601,410	619,872	645,505	688,320
Average Citations per Cited Author	5.23	5.44	5.40	6.08	6.36	6.50	6.64	6.28	6.52	6.67	6.65

* excepting Patents

SCIENCE CITATION INDEX® 1961 and 1963-1972
CHRONOLOGICAL DISTRIBUTION OF CITATIONS TO AUTHORED ITEMS (NON-PATENTS)

Percentage of Unique Citations

Reference Year	1961	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
1972											2.77
1971										3.13	9.13
1970									3.20	9.22	10.26
1969								3.63	9.69	10.20	9.25
1968							3.38	9.95	10.40	9.27	8.04
1967						3.39	10.34	10.76	9.18	8.04	6.94
1966					3.31	10.50	10.90	9.30	7.78	6.69	5.86
1965				5.07	10.79	11.21	9.76	8.10	6.84	5.96	5.21
1964			5.36	13.05	11.24	9.68	8.18	6.77	5.76	5.06	4.43
1963		3.92	13.50	11.34	9.55	8.16	6.90	5.68	4.94	4.32	3.81
1962		9.98	11.04	9.10	8.00	6.79	5.82	4.78	4.23	3.71	3.28
1961	3.51	10.07	8.78	7.50	6.62	5.74	4.92	4.06	3.62	3.17	2.84
1960	11.58	8.90	7.40	6.54	5.85	5.09	4.41	3.68	3.28	2.90	2.60
1959	12.20	7.16	5.95	5.41	4.82	4.16	3.65	3.07	2.78	2.39	2.15
1958	10.01	6.02	5.00	4.53	4.11	3.58	3.14	2.66	2.39	2.12	1.90
1957	8.16	5.12	4.21	3.89	3.52	3.10	2.74	2.33	2.09	1.84	1.66
1956	6.88	4.39	3.64	3.39	3.12	2.75	2.43	2.04	1.86	1.66	1.50
1955	5.82	3.90	3.26	3.02	2.79	2.44	2.16	1.82	1.66	1.49	1.34
1954	4.85	3.35	2.78	2.57	2.41	2.12	1.87	1.61	1.46	1.30	1.18
1953	4.25	2.97	2.47	2.27	2.12	1.87	1.67	1.43	1.33	1.19	1.06
1952	3.56	2.58	2.11	2.00	1.88	1.64	1.45	1.25	1.15	1.04	.92
1951	3.12	2.23	1.85	1.74	1.64	1.45	1.30	1.12	1.01	.93	.83
1950	2.66	1.98	1.67	1.54	1.47	1.29	1.17	1.00	.91	.84	.75

Cumulative Percentage of Unique Citations

Reference Year	1961	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
1972											2.77
1971										3.13	11.90
1970									3.20	12.35	22.16
1969								3.63	12.89	22.55	31.41
1968							3.38	13.58	23.29	31.82	39.45
1967						3.39	13.72	24.34	32.47	39.86	46.39
1966					3.31	13.89	24.62	33.64	40.25	46.55	52.25
1965				5.07	14.10	25.10	34.38	41.74	47.09	52.51	57.46
1964			5.36	18.12	25.34	34.78	42.56	48.51	52.85	57.57	61.89
1963		3.92	18.86	29.46	34.89	42.94	49.46	54.19	57.79	61.89	65.70
1962		13.90	29.90	38.56	42.89	49.73	55.28	58.97	62.02	65.60	68.98
1961	3.51	23.97	38.68	46.06	49.51	55.47	60.20	63.03	65.64	68.77	71.82
1960	15.09	32.87	46.08	52.60	55.36	60.56	64.61	66.71	68.92	71.67	74.42
1959	27.29	40.03	52.03	58.01	60.18	64.72	68.26	69.78	71.65	74.06	76.57
1958	37.30	46.05	57.03	62.54	64.29	68.30	71.40	72.44	74.04	76.18	78.47
1957	45.46	51.17	61.24	66.43	67.81	71.40	74.14	74.77	76.13	78.02	80.13
1956	52.34	55.56	64.88	69.82	70.93	74.15	76.57	76.81	77.99	79.68	81.63
1955	58.16	59.46	68.14	72.84	73.72	76.59	78.73	78.63	79.65	81.17	82.97
1954	63.01	62.81	70.92	75.41	76.13	78.71	80.60	80.24	81.11	82.47	84.15
1953	67.26	65.78	73.39	77.68	78.25	80.58	82.27	81.67	82.44	83.66	85.21
1952	70.82	68.36	75.50	79.68	80.13	82.22	83.72	82.92	83.59	84.70	86.13
1951	73.94	70.59	77.35	81.42	81.77	83.67	85.02	84.04	84.60	85.63	86.96
1950	76.60	72.57	79.02	82.96	83.24	84.96	86.19	85.04	85.51	86.54	87.71

Percentage of Total Citations

Reference Year	1961	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
1972											2.14
1971										2.44	9.38
1970									2.47	9.48	11.40
1969								2.98	9.90	11.37	10.13
1968							2.67	10.38	11.58	10.20	8.71
1967						2.75	10.60	11.82	10.17	8.74	7.44
1966					2.65	10.90	12.05	10.05	8.49	7.20	6.19
1965				4.14	11.50	12.26	10.59	8.64	7.33	6.27	5.42
1964			4.55	13.60	12.45	10.58	8.82	7.22	6.14	5.30	4.58
1963		3.36	14.15	12.50	10.41	8.83	7.38	6.05	5.19	4.49	3.90
1962		11.26	12.39	10.12	8.55	7.17	6.06	4.99	4.34	3.79	3.30
1961	4.14	11.82	9.70	8.06	7.00	5.95	5.05	4.16	3.66	3.16	2.79
1960	10.90	10.11	8.00	6.88	6.05	5.22	4.50	3.73	3.29	2.86	2.54
1959	11.03	8.01	6.34	5.60	4.94	4.20	3.64	3.04	2.68	2.32	2.06
1958	9.14	6.62	5.29	4.69	4.20	3.61	3.13	2.65	2.36	2.07	1.84
1957	7.51	5.63	4.44	4.01	3.61	3.13	2.75	2.34	2.08	1.81	1.62
1956	6.43	4.77	3.81	3.46	3.16	2.73	2.41	2.03	1.83	1.62	1.45
1955	5.57	4.13	3.35	3.04	2.77	2.40	2.12	1.80	1.62	1.43	1.28
1954	4.74	3.46	2.78	2.52	2.31	2.03	1.79	1.53	1.38	1.22	1.09
1953	4.16	3.11	2.48	2.26	2.11	1.83	1.61	1.40	1.29	1.14	1.01
1952	3.52	2.67	2.09	1.95	1.85	1.56	1.39	1.19	1.09	.97	.86
1951	3.06	2.30	1.86	1.70	1.65	1.43	1.28	1.13	1.03	.96	.87
1950	2.66	1.99	1.67	1.47	1.39	1.22	1.09	.95	.86	.77	.68

Cumulative Percentage of Total Citations

Reference Year	1961	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
1972											2.14
1971										2.44	11.52
1970									2.47	11.92	22.92
1969								2.98	12.37	23.29	33.05
1968							2.67	13.36	23.95	33.49	41.76
1967						2.75	13.27	25.18	34.12	42.23	49.20
1966					2.65	13.65	25.32	35.23	42.61	49.43	55.39
1965				4.14	14.15	25.91	35.71	43.87	49.94	55.70	60.81
1964			4.55	17.74	26.60	36.49	44.73	51.09	56.08	61.00	65.39
1963		3.36	18.70	30.24	37.01	45.32	52.11	57.14	61.27	65.49	69.29
1962		14.62	31.09	40.36	45.56	52.49	58.17	62.13	65.61	69.28	72.59
1961	4.14	26.44	40.79	48.42	52.56	58.44	63.22	66.29	69.27	72.44	75.38
1960	15.04	36.55	48.79	55.30	58.61	63.66	67.72	70.02	72.56	75.30	77.92
1959	26.07	44.56	55.13	60.90	63.55	67.86	71.36	73.06	75.24	77.62	79.98
1958	35.21	51.18	60.42	65.59	67.75	71.47	74.49	75.71	77.60	79.69	81.82
1957	42.72	56.81	64.86	69.60	71.36	74.60	77.24	78.05	79.68	81.50	83.44
1956	49.15	61.58	68.67	73.06	74.52	77.33	79.65	80.08	81.51	83.12	84.89
1955	54.72	65.71	72.02	76.10	77.29	79.73	81.77	81.88	83.13	84.55	86.17
1954	59.46	69.17	74.80	78.62	79.60	81.76	83.56	83.41	84.51	85.77	87.26
1953	63.58	72.28	77.28	80.88	81.71	83.59	85.17	84.81	85.80	86.91	88.27
1952	67.10	74.95	79.37	82.83	83.56	85.15	86.56	86.00	86.89	87.88	89.13
1951	70.16	77.25	81.23	84.53	85.21	86.58	87.84	87.13	87.92	88.84	90.00
1950	72.82	79.2[illegible]	82.84	86.00	86.60	87.80	88.93	88.08	88.78	89.61	90.68

The Science Citation Index®: A New Concept In Indexing

MORTON V. MALIN

THE VARIOUS INDEXING SYSTEMS presently in existence have one basic goal: to provide researchers with access to the information they require. The stimulus for development of more sophisticated systems has, of course, been the need to probe the growing mass of information documents. Developers of indexing systems are, consequently, concerned not only with establishing a tool which provides access to ideas but also one which can deal with a large mass of information. The user's interest in indexing systems is similar since his requirement is to be able quickly to extract serviceable ideas from a mass of documents which may contain information of importance to him.

The purpose of this paper is to discuss citation indexing and its present application as exemplied by the *Science Citation Index®*, published by the Institute for Scientific Information as a new, unique, and necessary tool for scientific work. It is necessary, therefore, to describe briefly, and in general terms, the nature of conventional subject indexing systems in order that a basis for contrast between these and citation indexing can be obtained. For those who wish to read extensively on the subject of indexing, references are provided at the end of the paper under the section "Additional References."

Indexing Systems

Indexing, as used in this paper, refers specifically to methods which have been developed for organizing large files in such a manner that the content of the file can be retrieved. The form in which the content appears is basically immaterial, as is also the form in which the retrieved information appears. By way of illustration, a book can be a file and an index to a book can be considered a method for organizing this file to extract information. At the other extreme, a library is also a file and a subject catalog is used to organize such a file for access to its content. Since different types of files and the requirements of the users of these files vary, different methods of organization have been attempted. The various indexing systems which have been developed reflect attempts to provide comprehensive and relevant retrieval of information.

Morton V. Malin is Vice-President, Institute for Scientific Information, 325 Chestnut St., Philadelphia, Pennsylvania 19106.

The methods used in indexing range from the relatively straightforward systems of providing bibliographic data, well described by conventional library rules for descriptive cataloging, to more sophisticated attempts to establish dictionaries and other hierarchical systems which by assigning words, terms, descriptors or other language elements, will lead the person to the desired information. Conventional indexing systems have generally followed the procedure of assigning words or subject headings to a document to describe its content. Common methods in these systems consist of choosing words from the titles of articles or books, leaving out common or functional words. An improvement on this basic approach is to choose words from the text and to add to this list synonyms of these basic words; or to provide definitions for words spelled the same but having different meanings. Further refinement results when, in addition to providing variants, attempts are made to establish generic relationships between the indexing terms. Thesauri generally follow these methods.

As a further step towards reducing ambiguity, some indexing systems have established functional or syntactical relationships between the terms used to describe the content of a single document. Role indicators are sometimes assigned to the index terms to show the application of each term. These methods begin to move indexing systems away from derived methods, i.e., those solely dependent on deriving terms from text to those methods which depend on assignment of index terms based on authority lists. These latter schemes may or may not use hierarchical structuring.

Since an assignment index or classification scheme usually represents a particular viewpoint, the classification schedule or list of descriptors may organize a body of information in such a manner that it reflects only the needs of one type of user. It is not necessary, however, to restrict the indexing of a particular item to a single approach or point of view. A collection of material can be analyzed from several points

of view and a group of indexing terms synthesized to provide this capability for the system. This is often called "facet analysis" or relational indexing. The method used is to combine in a prescribed manner the terms derived from separate indexing examinations. Ranganathan's colon classification scheme and the work done by the members of the Classification Research Group in England are outstanding examples of this method of indexing.[1]

Citation Indexing

Citation indexing represents an entirely new approach to the problem of file organization and does not depend for its indexing technique either upon word derivations from text or upon word assignment. A citation index is an ordered list of cited articles, each of which is accompanied by a list of citing articles. The citing article is identified as a source, the cited article as a reference.[2]

In such a system there is no need to provide index terms either from the text or by assignment since the indexing system employed makes use of association of ideas to establish the relevancy of material in a document rather than the arbitrary authority of an indexer. Because citation indexing does not rely on word assignment, nomenclature, or terminology, it spans the gap between the subject approach of the cataloger and the subject approach of the information seeker without need to rely on any application of a directed artificial language to describe the subject matter in a paper. The subject matter is described by the direct association that exists between authors, for when one author cites the work of another, he is associating his subject matter with that of the cited author.[3] In general, a citation implies a relationship between a part or the whole of a cited paper and a part or the whole of the citing paper. By following the subsequent citations, the history of an idea can be traced: where and how it has been applied and whether it is sustained, rejected, or absorbed into later work.

The scientist is not interested only in obtaining specific information; browsing is also important to researchers who must keep alert and stimulated. Easy browsing should depend upon relationship of ideas rather than classification, and such relationship is provided by references which an author makes to earlier articles. This is usually achieved by assembling a bibliography of references to a special topic. Such bibliographies, although useful, are deficient because they only establish links going backward in time. Through the use of citation indexing, these references can be reorganized to provide the additional capability

of tracing the same topics forward in time and thus satisfying both the browsing instinct of the researcher and his need for specific information.[4]

The concept of citation indexing is not new, having been used for nearly three-quarters of a century by the legal profession in the form of *Shephard's Citations*, an index to legal cases. The system provides a listing of individual American court cases, each case being followed by a complete history written in a simple code. Listed under each case are publications that have referred to the case, other court decisions that have affected the case, and any other references that may be of value. This type of listing is particularly important to the lawyer because, in law, much depends upon precedent.[3]

Citation indexes may be specific to one subject area such as the *Genetics Citation Index™*, or they may be produced as indexes to material appearing in one journal, the most notable example being volumes 1-31 of the *Annals of Mathematical Statistics*. An index may also be multidisciplinary in nature, covering all fields of science as exemplified by the *Science Citation Index®*.[5]

Citation indexes can be produced using a simple system of coding entries in order to conserve space, or they can be prepared to provide more or less complete bibliographic histories for each item. Arrangements of entries are also flexible in citation indexing. They can be by author, by journal, or, if specific to a particular journal, by initial page of the cited item.

Science Citation Index®

The *Science Citation Index®*, the only regularly published citation index in science, is prepared by computer and cites source authors as entries. In May of this year, the 1966 *SCI®* was published, making the fourth complete annual accumulation. To provide proper background, it is worthwhile to summarize the content of the 1966 *SCI®* before describing its make-up and discussing its uses.

The *SCI®* uses, as its basic input, selected journals covering all the major and sub-disciplines of mathematics, the life, physical, and chemical sciences and, to a large degree, engineering. In the 1966 *SCI®* approximately 100 subject areas in these disciplines were covered by the journals providing the input to the system. During the year, 1,573 journals from forty-two countries were processed. The number of journal issues processed totaled 12,444 and the number of source journal items processed totaled 273,870. Total citations to journal and

non-journal articles amounted to 3,063,180. Over one million unique authored items are cited in the 1966 *SCI*R.[6]

The *SCI*R is a calendar year index, which means that, with minor exceptions, all specific issues of journals published and available during the time period covered by any edition of *SCI*R, are included. Journal selection has placed an important emphasis on the multidisciplinary journals in order to provide the broadest coverage and to enable the searcher to obtain information across disciplines. Each journal receives comprehensive treatment so that doubts as to whether any particular article was indexed are eliminated. Comprehensive treatment also means processing all material that has substantive information. All possible useful items, including editorials, book reviews, letters, meeting reports, critical reviews, and so on, are processed leaving nothing to chance; only ephemeral items such as advertisements and news notices are omitted.[6]

As was stated previously, arrangements for citation indexes can vary. As an illustration, let us return to an earlier example: *Shephard's Citations*. This particular index is organized by law cases to provide access to the volumes in which cases are reported. Thus, the citation 301 U.S. 356 is a reference to the case reported in volume 301 of the United States Supreme Court Reports on page 356. This reference becomes fixed for all future time and will appear in legal documents in the form noted. Statutes are cited by chapter and section number or by article, chapter and section number of the publication in which they appear. Ch. 16, Sec. 24, N.J.R.S. would thus refer to Chapter 16, Section 24, New Jersey Revised Statutes.[7]

A lawyer wishing to locate a case or cases for his authority first obtains a suitable case to fit his need. He then refers to *Shephard's*, using this case as his starting point, where he will find as his authority the subsequent cases that have cited it. The type of arrangement he would find would follow the fictional illustration shown below:

101 Mass. 210	(starting case)[7]
112 Mass. 65	
130 Mass. 89	
165 Mass. 210	
192 Mass. 69	
205 Mass. 113	
221 Mass. 210	
281 U.S. 63	
35 H.L.R. 76	

Tukey describes another type of index, *Annals of Mathematical Statistics*, in which a coding system is used.[4] The code provides the year, code for the author's last name, volume number, journal code and initial page of the cited and citing article. A sample illustration is given below:

Cited			*Citing*		
31PRN	23BMTA	11	34TRR	5AMSX	324
31PRN	23BMTA	23	58SKE	29AMSX	60
31PRN	23BMTA	114	39MCY	10AMSX	337
32PRN	24BMTA	404	50GRS	21AMSX	27
32 "	"	"	52MSN	23AMSX	126
"	"	"	59HRR	30AMSX	9800
32FLR	24BMTA	428	36RTZ	7AMSX	144

The first two digits are the year, the next three letters represent the author's last name, the next set of digits are the volume number. The letters following the volume number indicate the journal and the last set of digits are the initial page of the article.[4]

The *SCI*R*'s* arrangement provides more complete bibliographic information than the two systems described. The *SCI*R also provides anonymous citations and patent and corporate indexes. Moreover, it is in effect three major indexes containing in its eight volumes a *Citation Index*, a *Source Index*, and a *Corporate Index*.

1. The *Citation Index* of the *Science Citation Index*R. The *Citation Index* provides indexing entries to the current literature by means of the ordered listing of all items cited during a current year. It is arranged alphabetically by cited author and within this arrangement chronologically by cited year. A citation to a reference contains the author's name and initials, the cited reference year, the publication name, volume, and page number. Under the name of each cited author appears the source article citing this work. This line is arranged by citing author's name, publication, code identifying type of source item, citing year, volume and page. Only the first author for both the cited and citing articles are given in the *Citation Index*. While reference years may be any year in recorded history, the source year is always the current year. The form of the source article, i.e., letter, editorial, book review, etc. is indicated by a code appearing just before the source year. Asterisks flanking the reference year identify the first reference line and usually the first year cited for a given author. Dashed

lines indented under the reference author specify other cited works published by the same author.[6]

The *Citation Index* contains a section for anonymous items (no personal author specified for the cited work). These items are arranged alphabetically by the titles of the cited publications. Within each title the arrangement is chronological by year of publication, and within each given year by the reference volume and page number.[6]

The *Patent Citation Index* of the *Science Citation Index*[R] is a listing of foreign and domestic patents that have been cited or referred to in any of the foreign or domestic journals covered by the *SCI*[R]. The index is arranged in numerical order by patent number and usually provides also the year of issuance, the inventor's name, and country.

The following illustration shows the arrangement of the *Citation Index*.

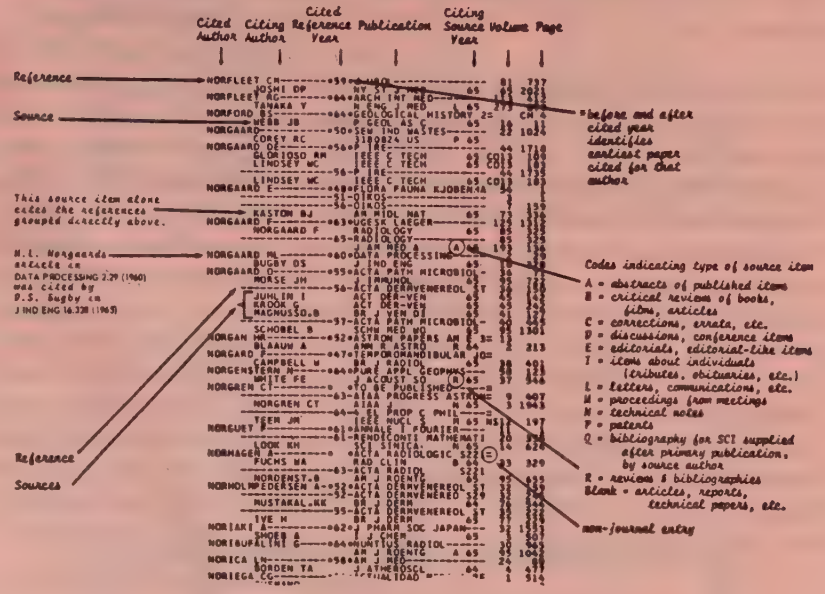
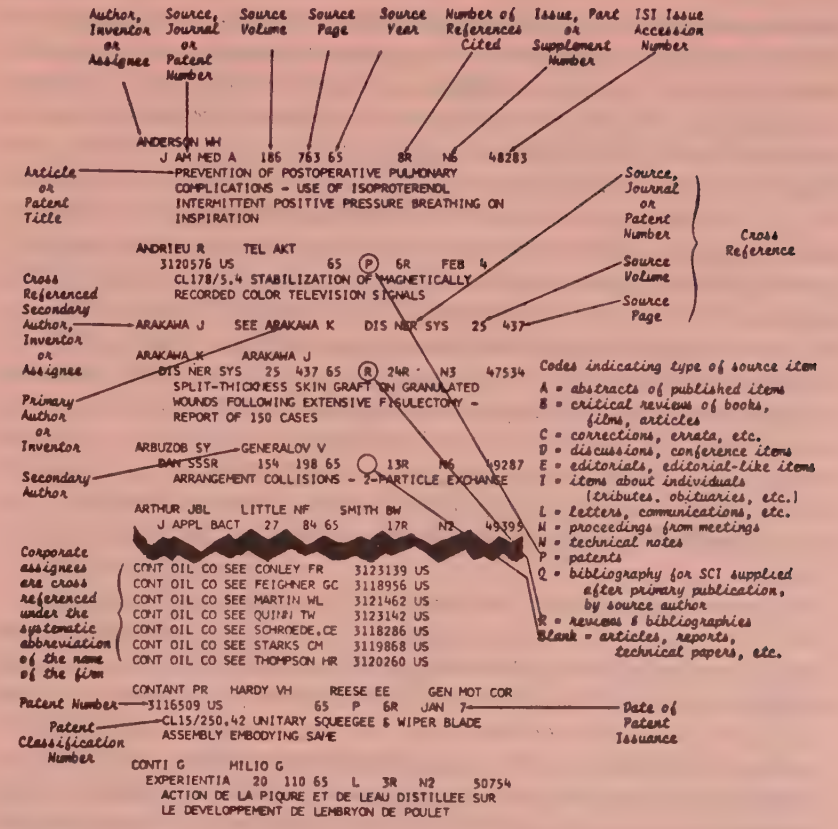

Cited Author
Citing Author
Cited Reference Year
Publication
Citing Source Year
Volume
Page
Reference
Source
This source item alone cites the references grouped directly above.
N. L. Norgaard's articles on DATA PROCESSING 2:29 (1960) was cited by P. S. Bugby in J IND ENG 16:328 (1965)
Reference
Sources
before and after cited year identifies earliest paper cited for that author
Codes indicating type of source item
A = abstracts of published items
B = critical reviews of books, films, articles
C = corrections, errata, etc.
D = discussions, conference items
E = editorials, editorial-like items
I = items about individuals (tributes, obituaries, etc.)
L = letters, communications, etc.
M = proceedings from meetings
N = technical notes
P = patents
Q = bibliography for SCI supplied after primary publication, by source author
R = reviews & bibliographies
Blank = articles, reports, technical papers, etc.
non-journal entry

Figure 1. Arrangement of the *Citation Index*.

2. The *Source Index* of the *Science Citation Index*[R]. The *Source Index* provides a complete author index to the current literature and a full description of each citing item. This *Index* contains all source items processed for the *SCI*[R], arranged by author. The entries include

all co-authors of items (maximum of ten), journal name, title, volume, page number, year, type of item (review, letter, correction, etc.) number of references in the bibliography of the source, the issue number, part or supplement number, and the ISI accession number for the journal issue, followed by the title of the article. Cross-references for every co-author are provided, even though the primary entries only list a maximum of ten. The "see reference" refers the user to the first author, journal, volume, and page. Anonymous source articles appear at the beginning of the *Source Index* and are arranged by journal, volume and page.[6]

Typical *Source Index* entries are illustrated below.


Author, Inventor or Assignee
Source, Journal or Patent Number
Source Volume
Source Page
Source Year
Number of References Cited
Issue, Part or Supplement Number
ISI Issue Accession Number
ANDERSON WH J AM MED A 186 763 65 8R N6 48283
Article or Patent Title
PREVENTION OF POSTOPERATIVE PULMONARY COMPLICATIONS - USE OF ISOPROTERENOL INTERMITTENT POSITIVE PRESSURE BREATHING ON INSPIRATION
ANDRIEU R TEL AKT 3120576 US 65 P 6R FEB 4
CL178/5.4 STABILIZATION OF MAGNETICALLY RECORDED COLOR TELEVISION SIGNALS
Cross Referenced Secondary Author, Inventor or Assignee
ARAKAWA J SEE ARAKAWA K DIS NER SYS 25 437
ARAKAWA K ARAKAWA J DIS NER SYS 25 437 65 R 24R N3 47534
SPLIT-THICKNESS SKIN GRAFT ON GRANULATED WOUNDS FOLLOWING EXTENSIVE FIGULECTOMY - REPORT OF 150 CASES
Primary Author or Inventor
Secondary Author
ARBUZOB SY GENERALOV V DAN SSSR 154 198 65 13R N6 49287
ARRANGEMENT COLLISIONS - 2-PARTICLE EXCHANGE
ARTHUR JBL LITTLE NF SMITH BW J APPL BACT 27 84 65 17R N2 49395
Corporate assignees are cross referenced under the systematic abbreviation of the name of the firm
CONT OIL CO SEE CONLEY FR 3123139 US
CONT OIL CO SEE FEIGHNER GC 3118956 US
CONT OIL CO SEE MARTIN WL 3121462 US
CONT OIL CO SEE QUINN TW 3123142 US
CONT OIL CO SEE SCHROEDE,CE 3118286 US
CONT OIL CO SEE STARKS CM 3119868 US
CONT OIL CO SEE THOMPSON HR 3120260 US
CONTANT PR HARDY VH REESE EE GEN MOT COR
Patent Number
3116509 US 65 P 6R JAN 7
Date of Patent Issuance
Patent Classification Number
CL15/250.42 UNITARY SQUEEGEE & WIPER BLADE ASSEMBLY EMBODYING SAME
CONTI G MILIO G EXPERIENTIA 20 110 65 L 3R N2 50754
ACTION DE LA PIQURE ET DE LEAU DISTILLEE SUR LE DEVELOPPEMENT DE LEMBRYON DE POULET
Cross Reference
Source, Journal or Patent Number
Source Volume
Source Page
Codes indicating type of source item
A = abstracts of published items
B = critical reviews of books, films, articles
C = corrections, errata, etc.
D = discussions, conference items
E = editorials, editorial-like items
I = items about individuals (tributes, obituaries, etc.)
L = letters, communications, etc.
M = proceedings from meetings
N = technical notes
P = patents
Q = bibliography for SCI supplied after primary publication, by source author
R = reviews & bibliographies
Blank = articles, reports, technical papers, etc.

The data shown here simulate the type of material which appears in the Science Citation Index
The data in these entries are fictitious.

Figure 2. Typical *Source Index* entries.

3. *The Corporate Index* of the *Science Citation Index*®. The SCI also contains a *Corporate Index* in which all items published in the source journals processed are listed under the organization where work was performed. The *Index* will indicate under each organization the names of staff who have authored articles indicating journal, volume and page.[6]

Undertaking a Search in the SCI®

Using the *Science Citation Index*® is a relatively simple affair. In a citation index the subject of a search is symbolized by the starting reference rather than a word or subject heading. Searching, consequently, is independent of special nomenclatures or artificial languages. The searcher starts with a reference or an author he has identified through a footnote, book, encyclopedia or conventional word or subject index. He then enters the *Citation Index* section of the *Science Citation Index*® and searches for that particular author's name. When he locates the author's name, he then checks to see which of several possible references fits the particular one that he is interested in. Under the year, journal, volume and page number of this particular reference, he then looks to see who has currently cited this particular work. Having noted the bibliographic citations of the authors who are citing the work with which he started, the searcher then turns to the *Source Index* section and obtains the complete bibliographic data for the works which he has found.

Citation indexing is highly specific, but a search may also be readily expanded in order to build a more extensive bibliography for a particular inquiry. For example, having found a number of source articles, the searcher can use the bibliographies of one or several of these as other entries into the *Citation Index*; this process is called "cycling." Since authors frequently write more than one closely related paper, additional articles by the author of the first starting reference can also be used as entry points and citations to these articles can be examined to obtain additional information. The *Source Index* itself may yield relevant current articles by a given author, even though they may not cite any of the known starting references.

The fundamental question one can answer quickly through the *Citation Index* is where and by whom has this paper been cited in the literature? The *SCI*® is also used by scientists to determine whether their work has been applied or criticized by others. It can facilitate feedbacks in the communication cycle. Any author may choose to

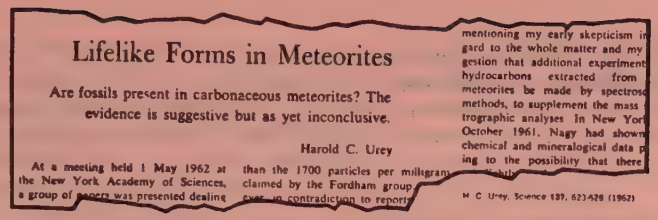
ignore the citations to his own work and still use the *Index* to retrieve publications which cite work by other scientists. The *SCI*® can be used to identify scientists currently working on special problems or to determine whether a paper has been cited, whether there has been a review of a subject, whether a concept has been applied, a theory confirmed, or a method improved. Because indications of corrections are published in the *SCI*®, it is useful as an aid in following particular articles. Only the user's imagination limits the extent to which the *SCI*® can be a useful tool for the scientist and librarian.

The usefulness of the *SCI*® can best be illustrated by conducting a hypothetical search.

The interest of the searcher is in life-like forms in meteorites. He has a starting reference, an article by Harold C. Urey published in *Science*, 1962, Volume 137, pages 623-628. To determine what other work has been done in this particular area, the searcher goes to the *Citation Index* and looks under Urey identifying the '62 *Science* article. Indented under this particular citation is a citation to a work by Mueller, G., that appeared in *Nature*, 1965, Volume 205, page 1200. Moving from the *Citation Index* to the *Source Index*, one looks under Mueller, finds the particular journal, year, volume and page reference and there sees that Mueller published a letter in 1965 with the title "Interpretation of Micro-Structures in Carbonaceous Meteorites." If the searcher is interested in obtaining even more information than this one particular reference, he can now obtain Mueller's article, look at the ten references that are given and using each reference as a starting point, enter the *Citation Index* once again. Since the probabilities are very high that if Mueller cited Urey's paper, the other papers that he would cite would also deal with the question of life-like forms in meteorites, then one can expect that the additional references will yield more current source articles on this particular subject.

The procedure of cycling permits the searcher to go backwards and forwards in time because, to cite the Urey-Mueller example again, he has begun with a past citation and moved forward to a current citation. If he follows through and uses the references in Mueller's paper as other starting points, then he is again going backward in time; and when he finds the current citations to these particular references, he has moved forward once again.

Citation indexing has found applications in other fields. It can be used by librarians in selecting journals for collections, and it is useful for certain types of sociological research.[8-10] However, it is less



Lifelike Forms in Meteorites

Are fossils present in carbonaceous meteorites? The evidence is suggestive but as yet inconclusive.

Harold C. Urey

At a meeting held 1 May 1962 at the New York Academy of Sciences, a group of papers was presented dealing

than the 1700 particles per milligram claimed by the Fordham group

mentioning my early skepticism in gard to the whole matter and my gestion that additional experiment hydrocarbons extracted from meteorites be made by spectros methods, to supplement the mass trographic analyses. In New Yor October 1961, Nagy had shown chemical and mineralogical data p ing to the possibility that there

H. C. Urey, Science 137, 623-628 (1962)

A

CITATION INDEX SECTION

CITED AUTHOR	CITING AUTHOR	CITED YR	PUBLICATION	CITING YR	VOL	PAGE
UREY HC		-31-	PHYS REV		38	1969
	T		J CHEM PHYS	65	42	932
	PILLAI MGK		AUST J CHEM	65	18	261
	TADOKORO H		J CHEM PHYS	65	42	1432
	DONN WL		GEOL S AM B	65	76	287
		-62-	SCIENCE		137	623
	MUELLER G		NATURE	L 65	205	1200
	ANDERS E		SPACE SCI R	R 64	3	583

B

SOURCE INDEX WITH TITLES

MUELLER CW RAD CORP AM
3166694 US 65 P 7R JAN 19
CL317/235 SYMMETRICAL POWER TRANSISTOR

MUELLER DC INT BUS MACH
3165719 US 65 P 2R JAN 12
CL340/166 MATRIX OF COINCIDENCE GATES HAVING COLUMN AND ROW SELECTION

MUELLER EG SEE SMITH HL 3166263 US

MUELLER FH MUELL CO
3168280 US 65 P 1R FEB 2

MUELLER G CLAUS G SUBAC EA
NATURE 205 1200 65 L 10R N4977 62558
INTERPRETATION OF MICRO-STRUCTURES IN CARBONACEOUS METEORITES

MUELLER H SINGER GD
Z PHYS 182 366 65 22R N4 61967
THERMOLUMINESCENCE AND EXO-ELECTRON EMISSION FROM ALKALI AZIDES

C

Figure 3. Hypothetical search of the *SCI*[R].

the intent of this paper to discuss the multiple uses of citation indexing than to present the general ideas behind the development of this indexing technique and its basic use.

General Comments

Relevancy of information obtained through use of citation indexes and the *SCI*[R] in particular, is generally very high. A citation does not suffer from failure to include descriptive terminology—rather it is a brief representation of the content of the documents it identifies. Those who have studied citation indexes know that only a small number of reference citations are needed to isolate a particular document from all others in a collection.[11]

Irrelevancy or "noise" can be eliminated in using citation indexes by careful selection of references as access points. In particular, if narrow specificity is desired in a search, the starting reference should be one which deals with only one subject.[12] Another method of reducing "noise" is to apply the concept of bibliographic coupling to the search. This involves recording sources obtained from the index which have two or more starting references in common.

Citation indexing has advantages that conventional indexing systems do not supply. A major advantage is the fact that there is no terminology problem and there is no need to guess how an indexer might have indexed a particular item. Multidisciplinary coverage is another distinct benefit afforded by citation indexes such as *SCI*[R]. Of importance too, are the speed and convenience which citation indexing provides to the searcher. Searches have been conducted using *SCI*[R] on a variety of subjects and have yielded excellent results, some of which are available from the Institute for Scientific Information upon request. Carol Spencer [12] reports on an experiment using *SCI*[R], *Chemical Abstracts*, and *Index Medicus* to develop a bibliography on the drug thalidomide. The results of the experiment showed that, for a period up to eight hours, an *SCI*[R] search yielded the highest number of references of the three indexes. Many searches take only a few minutes; consequently, several hours of searching will yield relatively complete bibliographies.

A citation index also has the advantage of being self-organizing. Each new reference to an old paper and each new citation modifies the previous store of information. The system is constantly being upgraded by current information, which in turn helps bring old information up to date.[13]

Conclusion

The crucial fact that must be faced by both the user of information and the librarian is the continuing growth in the number of documents reporting the results of scientific investigation. Concomitant with this growth are the continued needs of the scientist to search narrow areas, and to browse effectively. Association of ideas provides an effective means for coping with the information explosion by providing focused access and ample browsing capacity. Classification of a field changes rapidly, but the relationship of one article to another changes little. The relationship between articles is provided by references authors make to earlier works, and a citation index is the best means for establishing this continued relationship both forward and backward in time.[4]

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CITATION INDEXES

By
Melvin Weinstock, Senior Information Scientist
Institute for Scientific Information

Introduction

Citation indexing is a relatively new method of organizing the contents of a collection of documents in a way that overcomes many of the shortcomings of the more traditional indexing methods. The primary advantage of citation indexing is that it identifies relationships between documents that are often overlooked in a subject index. An important secondary advantage is that the compilation of citation indexes is especially well suited to the use of man-machine indexing methods that do not require indexers who are subject specialists. This helps to make citation indexes more current than most subject indexes. Furthermore, citations, which are bibliographic descriptions of documents, are not vulnerable to scientific and technological obsolescence as are the terms used in subject indexes.

Citation indexing is based on the simple concept that an author's references to previously recorded information identify much of the earlier work that is pertinent to the subject of his present document. These references are commonly called citations, and a citation index is a structured list of all the citations in a given collection of documents. Such lists are usually arranged so that the cited document is followed by the citing documents.

The first practical application of this concept was *Shepard's Citations*, a legal reference tool that has been in use since 1873. *Shepard's Citations* owes its existence to the fact that American law, like English law, operates under the doctrine of *Stare Decisis*. *Stare Decisis* means that all courts must follow their own precedents as well as those established by higher courts. The precedents are the decisions handed down in previous cases.

To try a case under *Stare Decisis*, a lawyer must base his argument on previous decisions regarding a similar point of law. Before presenting the previous decision as a precedent, however, the lawyer must make sure that the decision has not been overruled, reversed, or limited in some way. *Shepard's Citations* enables the lawyer to do this with a minimum of trouble.

A legal case is always referred to by a code which consists of the volume and

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Volume 5, Pages 16-40, Marcel Dekker, New York (1971)

(Figure 2 and figure 3 of the original manuscript of this article have been replaced to reflect the present format of the *Citation Index* portion and the *Source Index* portion of the *Science Citation Index®*. The wording in the original article has not been changed to reflect this substitution.)

page number of the document in which the case is reported. Once a case is permanently reported, its reference code becomes fixed for all time. Thus, 301U.S.356 is a reference to the case reported in volume 301 of the United States Supreme Court Reports on page 356. Statutes are also referred to in a similar manner. Thus, Ch16Sec24NJRS refers to chapter 16, section 24 of the New Jersey Revised Statutes.

Taking advantage of this coding system, Frank Shepard devised a listing which shows every instance in which a reported decision is cited in a subsequent case. The listing also shows what statutes and journals cite the original decision.

Figure 1 is a Shepardized list of citations to a fictitious case. In the figure, the cited case is 101Mass.210; the items listed below it are the citing cases and an

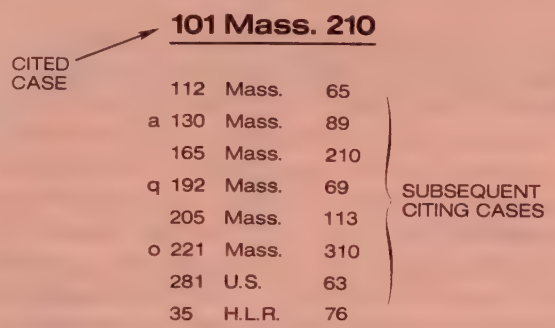

FIGURE 1. *Typical entry from* Shepard's Citations *showing cited and citing cases.*

article from the *Harvard Law Review* which refer to the case. The letters preceding the case codes show that the decision in the cited case was first affirmed (a), then questioned (q), and finally over-ruled (o).

To use *Shepard's Citations* a lawyer must first locate a previous decision relating to his current case. He does this by consulting a digest, index, or encyclopedia which will provide him with the case number for any given decision. The lawyer then looks up the case number in *Shepard's Citations* and finds all the subsequent citing cases. From this information, he can determine whether the original decision was affirmed or modified in any way. Thus, in the example given in Figure 1, the original decision could not be used as a precedent because it was subsequently over-ruled.

Problems with Traditional Subject Indexes

After World War II, users of scientific and technological literature were finding it increasingly difficult to find information pertinent to their own work. Several factors caused this situation. One was that the size of the literature was growing very rapidly. Projections indicated that by 1975 there would be over two million scientists in the world producing a million papers a year. These new papers would be added to the 10 million papers that would already be published by then (*1*).

As the growing volume of scientific information began to overwhelm the limited number of indexers that could be economically supported, there were delays of six months to several years before papers were classified. This, in turn, resulted in more and more scientists spending time needlessly duplicating existing work.

Another factor in the literature problems of scientists was the increasing need for exchanging information between scientific disciplines. The majority of subject indexes covered only one field or discipline. Science had become so interrelated that such arbitrary restrictions were causing the researcher to remain unaware of much valuable information. Fields such as oceanography, organic chemistry, and environmental science could no longer be placed into neat little cells. To be reasonably sure that he had most of the important information pertaining to any such field, the scientist was required to examine the literature of several disciplines. For example, a chemist selecting suitable materials for surgical implants or artificial internal organs might find useful information in chemical journals, medical journals, or engineering journals.

Although the growing size of the literature and the need for multidisciplinary information retrieval highlighted the shortcomings of traditional subject indexes, there were also other problems involved. The classification terms used in subject indexes are often ambiguous and lend themselves to different interpretations, especially when the user is not fully conversant with the details of a particular indexing system. Subject indexes also encounter the problem of assigning labels to new concepts. Many times, especially in fast-moving (or rapidly developing) fields like biochemistry, this is very difficult. Indeed, a consensus of what is the "proper" label for a concept may not be arrived at until some time after the original paper presenting the concept has been indexed under an inappropriate term.

Because indexers possess different intellectual abilities and technical skills, two different indexers will often use different key words, or headings, or subject terms when classifying the *same* document (*2*). Thus, it is not surprising to find *related* documents classified under entirely different subject headings with no clue to the searcher that this has happened. For example, an important 1963 paper on the topic of "seasonal variations in birth" (*3*) is indexed under the subject heading of "Periodicity" in the 1964 edition of *Index Medicus* (*4*). It is highly unlikely that anyone looking for information on seasonal variations in birth would ever think to look under "Periodicity" since it is quite a different concept than "Seasonal Variation."

These types of problems made clear the need for a system that would provide a unified index to the scientific literature that was current, free of semantic difficulties, and not dependent on the subject knowledge of indexers (*5*).

The Start of Citation Indexes for Science

REFERENCE TRADITION

As the doctrine of *Stare Decisis* provided the logic for *Shepard's Citations,* so did the "reference tradition" provide the rationale for citation indexes for science.

Scientific tradition requires that when a reputable scientist or technologist publishes an article, he should refer to earlier articles which relate to his theme. These references are supposed to identify those earlier researchers whose concepts, methods, apparatus, etc., inspired or were used by the author in developing his own article. Some specific reasons for using citations are as follows:

1. Paying homage to pioneers.
2. Giving credit for related work.
3. Identifying methodology, equipment, etc.
4. Providing background reading.
5. Correcting one's own work.
6. Correcting the work of others.
7. Criticizing previous work.
8. Substantiating claims.
9. Alerting researchers to forthcoming work.
10. Providing leads to poorly disseminated, poorly indexed, or uncited work.
11. Authenticating data and classes of fact—physical constants, etc.
12. Identifying original publications in which an idea or concept was discussed.
13. Identifying the original publication describing an eponymic concept or term as, e.g., Hodgkin's disease, Pareto's Law, Friedel-Crafts Reaction.
14. Disclaiming work or ideas of others.
15. Disputing priority claims of others.

In the early 1950s, the availability of this built-in system for linking scientific articles began to receive attention as the possible foundation of an indexing system for the scientific literature.

WELCH MEDICAL LIBRARY INDEXING PROJECT

In 1952, Dr. Chauncey Leake was chairman of the Committee of Consultants for the Study of Indexes to Medical Literature. This committee was supervising the Johns Hopkins Welch Medical Library Indexing Project which was sponsored by the Armed Forces Medical Library. Dr. Leake suggested that project workers should examine review articles in connection with their investigation of the problems with subject indexes to medical literature.

GARFIELD

This statement had considerable impact on Eugene Garfield, one of the Welch Project investigators. Garfield realized that nearly every sentence in a review article is supported by a citation to a previous work. Thus, a review article could really be considered a series of indexing statements. The problem then became one of transforming these statements into a consistent format that would be useful as an index.

ADAIR

In 1953, the Welch Project conducted a symposium, news of which was reported in a Colorado newspaper. This article was read by William C. Adair, who was a former vice president of the firm that produced *Shepard's Citations.* Adair wrote to the Welch Project and suggested that they consider the method employed by Shepard's as a possible indexing technique.

After examining *Shepard's Citations,* Garfield realized that the "citator" principle could provide a means of indexing review papers which could be extended to the scientific literature in general.

After the Welch Project ended, Garfield began graduate work in Library Science at Columbia University. During this period he continued correspondence with Adair and began writing a detailed article on citation indexes for scientific literature. The article was completed in 1954 and was edited and refereed by Professor Bentley Glass, who was then chairman of the Johns Hopkins Department of Genetics and on the editorial board of *Science.*

While his own article was awaiting publication, Garfield, who by then was an associate editor of *American Documentation,* suggested that Adair write a shorter article which would explain, in general terms, the operation of *Shepard's Citations.* The Adair article appeared in *American Documentation* in June of 1955 (*6*); Garfield's article appeared in *Science* in July of 1955 (*7*).

LEDERBERG

It was not until 1958, however, that the scientific community exhibited any specific interest in Garfield's idea. In that year, Professor Joshua Lederberg of Stanford University wrote to Garfield to inquire if any further work had been done on citation indexing. When informed of the financial problems involved in starting such a project, Lederberg suggested that Garfield should apply for a grant from the government.

GENETICS CITATION INDEX

In 1961, the National Institute of Health initiated a cooperative program with Garfield's Institute for Scientific Information (ISI) to prepare a citation index for the field of genetics (*8*). In addition to preparing the index, the program was to investigate and make recommendations on such general questions about citation indexes as:

1. Should there be a single citation index for all of science and technology, several rather broad ones, or many narrow ones, each focused on a single discipline?
2. In what ways is it possible to arrange a citation index (author, journal, etc.) and what way is the best for any given situation?
3. What techniques could be used for gathering the citation information?
4. Should books and technical reports be covered and to what degree?

Garfield soon recognized, however, that defining the genetics literature to be covered by a citation index would be quite difficult. Fine judgements would be required as to what was or was not genetics literature. At Garfield's suggestion,

it was decided to undertake a comprehensive, interdisciplinary approach to preparing a citation index and then extract a genetics citation index from that base of information.

SCIENCE CITATION INDEX

The interdisciplinary data base was eventually used to produce the first *Science Citation Index* which was published in 1963. The first *SCI* covered the literature of the calendar year of 1961. It covered 613 journals, contained 1.4 million citations, and required five volumes. Nineteen per cent of the citations in the 1961 *SCI* data base were selected by special computerized procedures as "having to do with genetics" and were published separately as the *Genetics Citation Index*. The genetics index was also published in 1963 and was complete in one volume.

OTHER CITATION INDEXES

In addition to the *Science Citation Index* and the *Genetics Citation Index*, there have been several other efforts at compiling citation indexes or at using the principle of citation indexing in information retrieval systems. Most of these have been experimental in nature, extremely narrow in their coverage, or published on a one-time basis.

Some citation indexes provide coverage of the material published in just one journal. One of the earliest examples of this is the cumulative index to volumes 35 through 50 of the *Journal of the American Statistical Association*. This index was prepared with assistance from the Ford Foundation and was issued in 1959. In this index, both the cited and citing articles had to appear in the covered journal to be indexed. Another example of a citation index with single journal coverage is the one that appears in the cumulative index to volumes 1 through 31 of the *Annals of Mathematical Statistics*. Published on a one-time basis in 1962, this index is a listing of articles appearing in the *Annals* which is arranged by author and shows references to various abstracts of the article and other articles in the *Annals* which cite the original article.

Another citation index that was published only once is contained in the *Bibliography of Non-parametric Statistics*. Published in 1962, this index shows what items in the bibliography cite other items in the bibliography.

Since 1966, each monthly issue of the *Journal of Histochemistry and Cytochemistry* has contained a citation index to its own articles. This index is arranged by author and shows, for any article previously published in the journal, where and by whom the article has been cited in the preceding month in any of over 2200 other journals.*

An example of a citation index that covers more than one journal but is limited to a single field is the *Citation Index for Statistics and Probability* which is currently being produced by Dr. J. W. Tukey at Princeton University (*9*). This project was initiated in 1961 and is being conducted in cooperation with the National Science Foundation. The journals covered by this index are concerned with theoretical and methodological statistics. At the beginning of the project, about 50 journals were being completely covered, with another 75 journals covered on a selective basis. Currently, about 100 journals are fully covered and 150 are covered selectively. It is estimated that the first issue of this index will appear in 1971.

In 1968, the Shepard organization itself introduced *Shepard's Law Review Citations*. This new publication indexes 117 law reviews and periodicals and shows where any legal article written since 1947 has been cited in the covered journals from 1957 on.

Some citation indexes are prepared to test other aspects of citation indexing besides information retrieval. One of these was compiled by Ben-Ami Lipetz (*10*). As sources, Lipetz used four of the eight Russian physics journals published in English by the American Institute of Physics. Out of all the citations appearing in these journals, he included in his index only the citations to articles published in two heavily-used American physics journals. The resulting citation index was then distributed to a group of subscribers of the two American journals and an attempt was made to compare the frequency of use of the four Russian journals before and after the distribution of the index. The object was to see if increasing the user's awareness of relevant articles by the use of a citation index would influence their reading habits. Lipetz concluded that the index produced a measurable increase in the use of the Russian journals, although the increase was not large scale.

As a final example, special citation indexes can be prepared on demand through systems that directly connect the users with the data base, as is done with the Technical Information Project (TIP) at the Massachusetts Institute of Technology (*11,12*). TIP uses a time-sharing computer connected to remote consoles by telephone cables. The data base consists of the full bibliographies of articles from recent volumes of twenty-five physics journals. Special programs have been devised to enable a user to request a citation index to these articles that will meet his specifications. Thus, a user can obtain a citation index to all the articles, or to the articles from only one of the covered journals, or to the articles in a single volume of a covered journal.

Description and Use of a Citation Index

The multidisciplinary and interdisciplinary *Science Citation Index* is now used by the libraries of almost every major university in the United States. For all intents and purposes, it is the only citation index to the most used literature of science and technology. Because of this, the following detailed discussion on the compilation and use of a citation index will be based on the *SCI*. It is felt that the underlying principles and mechanics of citation indexing will be most clearly explained with this approach.

* This information is compiled from the Automatic Subject Citation Alert (ASCA) service of the Institute for Scientific Information.

The *Science Citation Index* provides an index to the contents of every issue published during a calendar year of approximately 2200 selected journals. Covered journals are considered *source* journals and the items they contain are called *source items*. All journals are indexed comprehensively to eliminate doubts as to whether or not a particular item is covered. All original articles and most other useful items in a journal are processed, including editorials, letters, and meetings. Ephemeral items such as advertisements and news notices are omitted. Although previously included, book reviews have not been used as source items since 1969.

Before keypunching, each source journal issue is edited and tagged to insure that all relevant data will be recorded. All foreign language titles are translated into English. All citations (footnoted or provided in a bibliography) are processed; where practical, citations are also extracted from the text. A separated punched card is prepared for every cited item appearing in every source item processed. For every source item, a set of punched cards containing the author(s), title, journal, etc. is also prepared. Each punched card is verified by direct comparison with the original journal.

Once the cards are punched and verified, the data are transferred from cards to magnetic tapes. During this process, the computer performs a unification routine which eliminates many errors from the original literature such as incorrect spellings in the names of cited authors and titles of cited publications (*13*).

The final data is formatted and further editing is done. Final printouts are then produced through the use of a computer-driven photo-composition machine. The final indexes are produced through photo-offset printing. Statistics are also tabulated in the course of obtaining the printouts.

FORMAT AND ARRANGEMENT

The *SCI* consists of three separate but related indexes. These are the *Citation Index,* the *Source Index,* and the *Permuterm Subject Index*. All three indexes making up the *SCI* are published quarterly for the first three quarters of the year. The indexes for the fourth quarter are incorporated in the annual cumulation for each index. Eleven volumes of about 1400 pages each were required for the annual cumulation for the 1969 *SCI* which contains 4 million citations extracted from about 341,000 source items.

The *Citation Index* is arranged alphabetically by cited author. An entry for a cited item (reference) contains the first author's name and initials, the year the cited item was published, and the name of the publication in which the cited item appeared along with its volume and page number. When there is more than one cited item for any author, these are arranged chronologically by cited year. The source items citing a particular reference work are arranged alphabetically by source author immediately under each reference line. The source item line contains the citing author's name, name of the publication in which the citing item appeared, and the publication year, volume, and page. There is also a coded symbol indicating whether the citing item was an article, abstract, editorial, etc. Cited items may be from any year in recorded history; citing items, however, are always from the current year. In the *Citation Index* only the *first* author is shown for the cited and citing items. The *Source Index* (discussed below) gives *all* authors for each citing item. Figure 2 shows part of a typical column from the *Citation Index* of the *SCI*.

A separate section of the *Citation Index* is used for anonymous items (no personal author specified for the cited work). These items are arranged alphabetically by the titles of the cited publications.

Another separate section within the *Citation Index* contains a *Patent Citation Index*. This is a listing of all patents (foreign and domestic) which have been

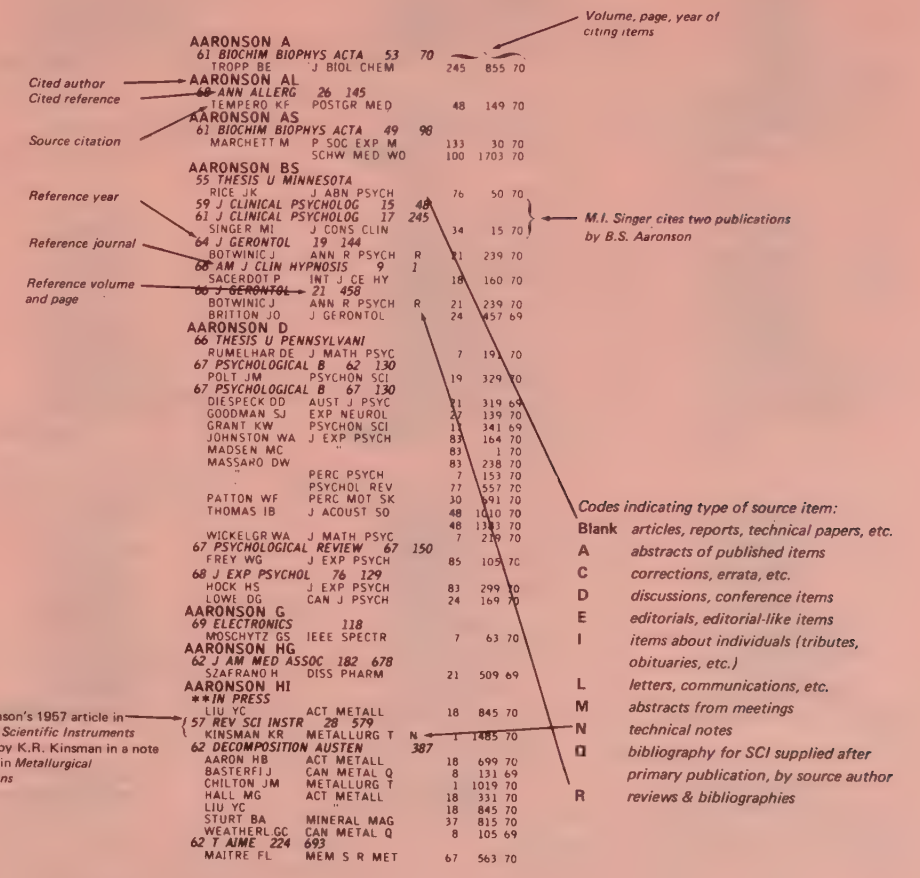
Volume, page, year of citing items
Cited author
Cited reference
Source citation
Reference year
Reference journal
Reference volume and page
M.I. Singer cites two publications by B.S. Aaronson
H.I. Aaronson's 1957 article in Review of Scientific Instruments was cited by K.R. Kinsman in a note published in Metallurgical Transactions
Codes indicating type of source item:
Blank articles, reports, technical papers, etc.
A abstracts of published items
C corrections, errata, etc.
D discussions, conference items
E editorials, editorial-like items
I items about individuals (tributes, obituaries, etc.)
L letters, communications, etc.
M abstracts from meetings
N technical notes
Q bibliography for SCI supplied after primary publication, by source author
R reviews & bibliographies

FIGURE 2. *Typical column from the* Citation Index *portion of the* Science Citation Index.

cited or referred to in any journal covered by the *SCI*. The *Patent Citation Index* is arranged in numerical order by patent number and usually provides, in addition to the patent number cited, the year of issuance, inventor, and country.

The *Source Index* is arranged alphabetically by source item author. Entries provide all co-authors, the full title of the citing (source) item, journal title, volume, issue, page, year, type of item (review, letter, correction, etc.), and number of references in the bibliography of the source item. Also provided is an

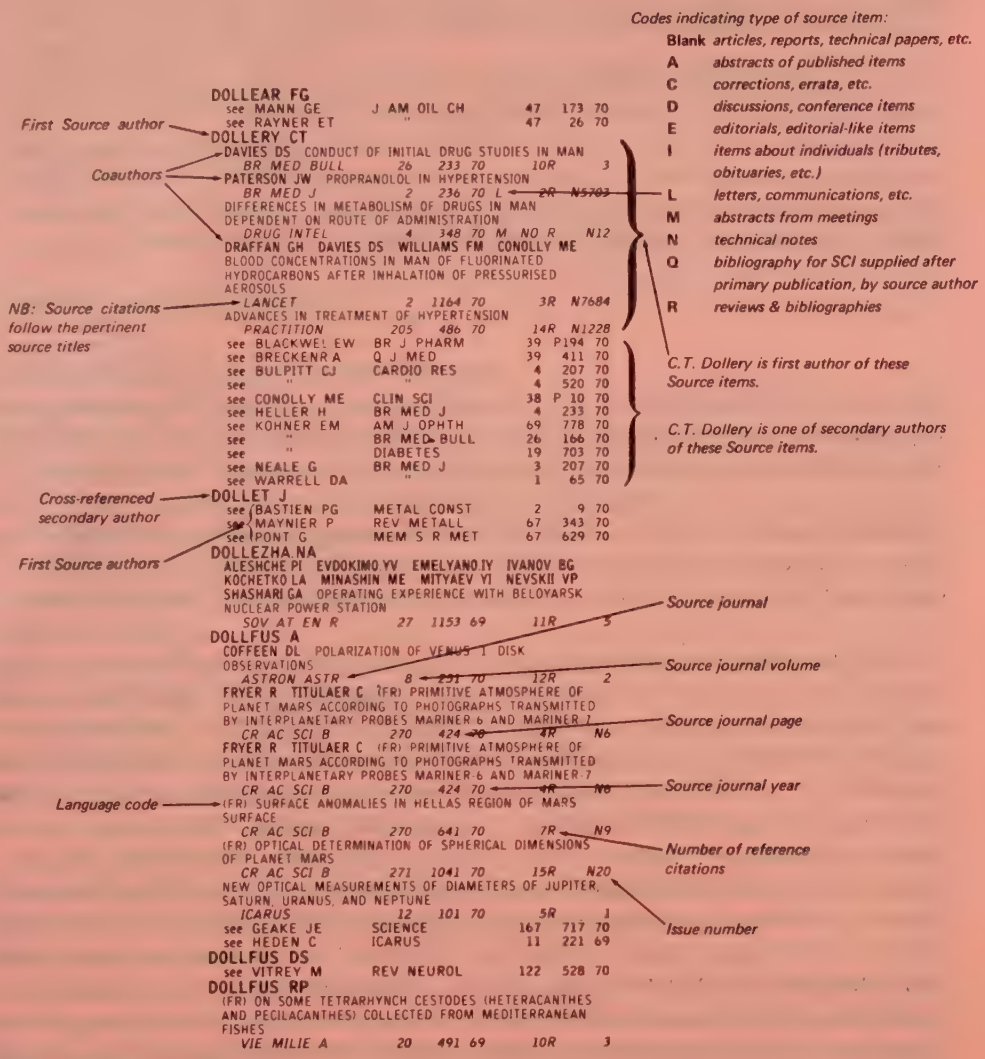
Codes indicating type of source item:
Blank articles, reports, technical papers, etc.
A abstracts of published items
C corrections, errata, etc.
D discussions, conference items
E editorials, editorial-like items
I items about individuals (tributes, obituaries, etc.)
L letters, communications, etc.
M abstracts from meetings
N technical notes
Q bibliography for SCI supplied after primary publication, by source author
R reviews & bibliographies
First Source author
Coauthors
NB: Source citations follow the pertinent source titles
C.T. Dollery is first author of these Source items.
C.T. Dollery is one of secondary authors of these Source items.
Cross-referenced secondary author
First Source authors
Source journal
Source journal volume
Source journal page
Source journal year
Language code
Number of reference citations
Issue number

FIGURE 3. *Typical column from the* Source Index *portion of the* Science Citation Index.

" A CONFORMAL MAPPING METHOD TO PREDICT LOW-SPEED AERODYNAMIC CHARACTERISTICS OF ARBITRARY SLENDER RE-ENTRY SHAPES"

the Permuterm technique results in the following indexing entries:

PRIMARY TERM CO-TERM	PRIMARY TERM CO-TERM	PRIMARY TERM CO-TERM
AERODYNAMIC	LOW-SPEED	RE-ENTRY
ARBITRARY	AERODYNAMIC	AERODYNAMIC
CHARACTERISTICS	ARBITRARY	ARBITRARY
CONFORMAL	CHARACTERISTICS	CHARACTERISTICS
LOW-SPEED	CONFORMAL	CONFORMAL
MAPPING	MAPPING	LOW-SPEED
METHOD	METHOD	MAPPING
PREDICT	PREDICT	METHOD
RE-ENTRY	RE-ENTRY	PREDICT
SHAPES	SHAPES	SHAPES
SLENDER	SLENDER	SLENDER
ARBITRARY	MAPPING	SHAPES
AERODYNAMIC	AERODYNAMIC	AERODYNAMIC
CHARACTERISTICS	ARBITRARY	ARBITRARY
CONFORMAL	CHARACTERISTICS	CHARACTERISTICS
LOW-SPEED	CONFORMAL	CONFORMAL
MAPPING	LOW-SPEED	LOW-SPEED
METHOD	METHOD	MAPPING
PREDICT	PREDICT	METHOD
RE-ENTRY	RE-ENTRY	PREDICT
SHAPES	SHAPES	RE-ENTRY
SLENDER	SLENDER	SLENDER
CHARACTERISTICS	METHOD	SLENDER
SEE STOP LISTS	SEE STOP LISTS *	AERODYNAMIC
		ARBITRARY
CONFORMAL	PREDICT	CHARACTERISTICS
AERODYNAMIC	AERODYNAMIC	CONFORMAL
ARBITRARY	ARBITRARY	LOW-SPEED
CHARACTERISTICS	CHARACTERISTICS	MAPPING
LOW-SPEED	CONFORMAL	METHOD
MAPPING	LOW-SPEED	PREDICT
METHOD	MAPPING	RE-ENTRY
PREDICT	METHOD	SHAPES
RE-ENTRY	RE-ENTRY	
SHAPES	SHAPES	
SLENDER	SLENDER	

* No entries are created for the words "A", "TO", "OF". These illustrate "full stop" words and are not indexed. The words "METHOD", and "CHARACTERISTICS" illustrate "semi-stop" terms. Semi-stop words are suppressed as Primary Terms but do appear as Co-Terms. Hyphenated words such as "RE-ENTRY" or phrases such as "LOW-SPEED" are treated as one term.

FIGURE 4. *Indexing entries that result when Permuterm technique is applied to an article title.*

accession number: this is the code by which the *source journal* is filed at *ISI*. Figure 3 shows part of a typical column from the *Source Index*.

Within the *Source Index* is a separate section called the *Corporate Index*. In the *Corporate Index*, all of the source items processed are listed alphabetically by author under the name of the organization where the work was performed. If more than one organization is involved in a given project, an entry is created for each organization.

The third major index contained within the *SCI* is the *Permuterm Subject Index*. Permuterm is a contraction of the phrase "permuted terms." In the *PSI*, the term "permuted" is used in its correct mathematical sense. This is to be distinguished from a Key-Word-In-Context (KWIC) index which rotates the words in an article title rather than fully permuting them.

To produce the *PSI*, a computer is used to permute all significant words within each title and subtitle of every item included in the *Source Index*. All possible pairs of terms are formed. Thus, for a title containing n significant words, there will be $n(n-1)$ pairs. With this system, every significant word takes a turn at being the primary term *as well as* being a co-term (*14*). Figure 4 shows the indexing entries that result when the Permuterm technique is used.

The *PSI* is arranged alphabetically by primary term. Terms which begin with numbers appear at the end of the index. All co-terms co-occurring with a particular primary term are indented and listed in alphabetical order under that primary term. Co-terms beginning with numbers appear at the end of the list. Dashed lines lead from each co-term to the name and initials of the author whose item contains that co-term and its associated primary term. For anonymous entries, the journal title is given in place of the author's name. Figure 5 shows part of a typical column from the *Permuterm Subject Index*.

BASIC SEARCH TECHNIQUE

Using the *Science Citation Index* involves the following steps. The searcher starts with the name of an author he has identified as having written an item related to the topic of the search. He then enters the *Citation Index* and looks up the name of that author. Once the author's name is located, the searcher can see the items that have currently cited the various items listed for this author. The searcher then notes the author, journal, volume, and page of each citing item. The searcher then turns to the *Source Index* and looks up the name of the citing author. At this entry he will find the complete bibliographic data for the citing item including the complete title and all co-authors. At this point, the searcher should examine source item titles and select those items which seem most likely to be relevant to his topic. He can then obtain the journals containing the items of interest from the library. This basic search technique is illustrated in Figure 6.

A search may be readily expanded in order to build a more extensive bibliography for a particular inquiry. For example, once he finds a number of source items, the searcher can use the bibliographies of one or several of these to provide

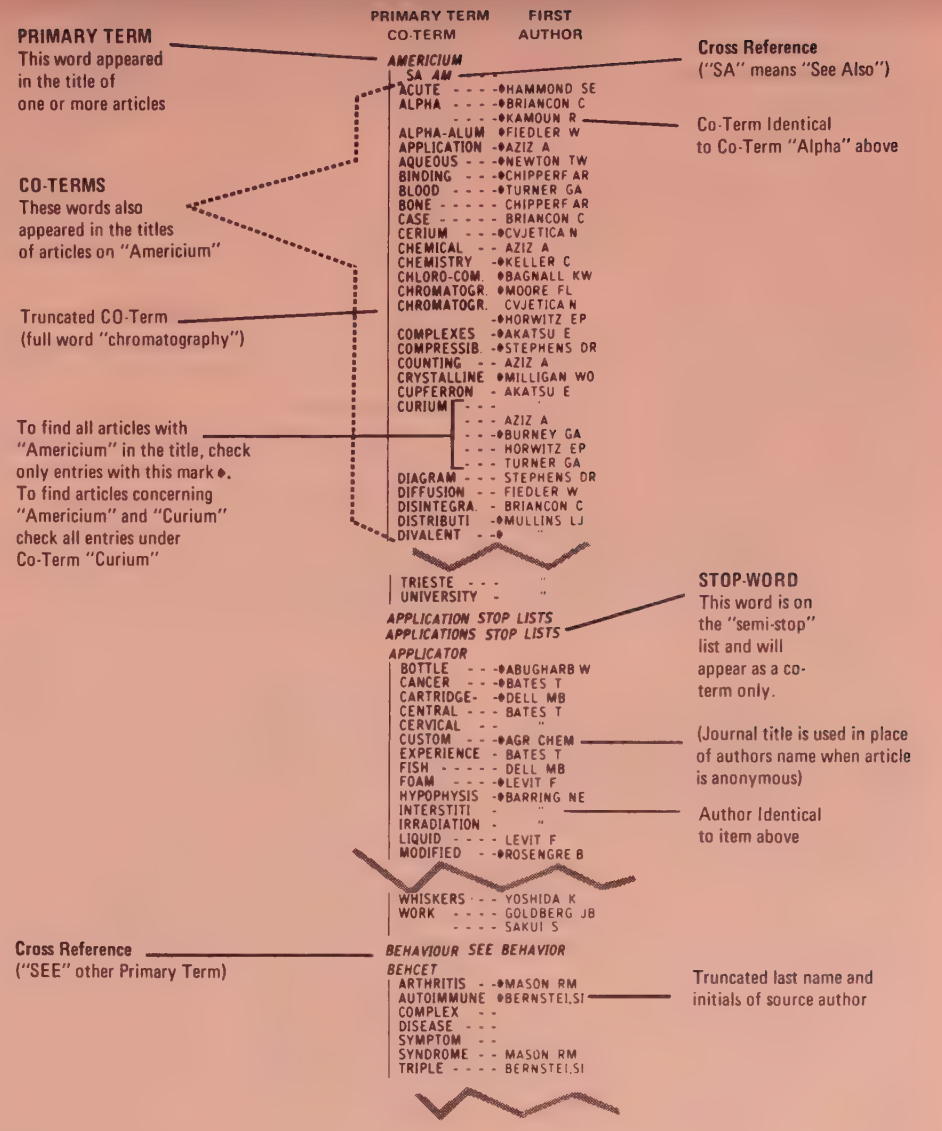
PRIMARY TERM
This word appeared in the title of one or more articles
CO-TERMS
These words also appeared in the titles of articles on "Americium"
Truncated CO-Term (full word "chromatography")
To find all articles with "Americium" in the title, check only entries with this mark ♦. To find articles concerning "Americium" and "Curium" check all entries under Co-Term "Curium"
Cross Reference ("SEE" other Primary Term)
PRIMARY TERM CO-TERM
FIRST AUTHOR
AMERICIUM
SA AM
ACUTE - - - -♦HAMMOND SE
ALPHA - - - -♦BRIANCON C
- - - -♦KAMOUN R
ALPHA-ALUM ♦FIEDLER W
APPLICATION -♦AZIZ A
AQUEOUS - - -♦NEWTON TW
BINDING - - -♦CHIPPERF AR
BLOOD - - - -♦TURNER GA
BONE - - - - - CHIPPERF AR
CASE - - - - - BRIANCON C
CERIUM - - -♦CVJETICA N
CHEMICAL - - AZIZ A
CHEMISTRY -♦KELLER C
CHLORO-COM. ♦BAGNALL KW
CHROMATOGR. ♦MOORE FL
CHROMATOGR. CVJETICA N
-♦HORWITZ EP
COMPLEXES -♦AKATSU E
COMPRESSIB. -♦STEPHENS DR
COUNTING - - AZIZ A
CRYSTALLINE ♦MILLIGAN WO
CUPFERRON - AKATSU E
CURIUM - - -
- - - AZIZ A
- - -♦BURNEY GA
- - - HORWITZ EP
- - - TURNER GA
DIAGRAM - - - STEPHENS DR
DIFFUSION - - FIEDLER W
DISINTEGRA. - BRIANCON C
DISTRIBUTI -♦MULLINS LJ
DIVALENT - -♦ "
TRIESTE - - - "
UNIVERSITY - "
APPLICATION STOP LISTS
APPLICATIONS STOP LISTS
APPLICATOR
BOTTLE - - -♦ABUGHARB W
CANCER - - -♦BATES T
CARTRIDGE- -♦DELL MB
CENTRAL - - - BATES T
CERVICAL - - "
CUSTOM - - -♦AGR CHEM
EXPERIENCE - BATES T
FISH - - - - - DELL MB
FOAM - - - -♦LEVIT F
HYPOPHYSIS -♦BARRING NE
INTERSTITI - "
IRRADIATION - "
LIQUID - - - - LEVIT F
MODIFIED - -♦ROSENGRE B
WHISKERS - - YOSHIDA K
WORK - - - - GOLDBERG JB
- - - - SAKUI S
BEHAVIOUR SEE BEHAVIOR
BEHCET
ARTHRITIS - -♦MASON RM
AUTOIMMUNE ♦BERNSTEI,SI
COMPLEX - -
DISEASE - - -
SYMPTOM - -
SYNDROME - - MASON RM
TRIPLE - - - - BERNSTEI,SI
Cross Reference ("SA" means "See Also")
Co-Term Identical to Co-Term "Alpha" above
STOP-WORD
This word is on the "semi-stop" list and will appear as a co-term only.
(Journal title is used in place of authors name when article is anonymous)
Author Identical to item above
Truncated last name and initials of source author

FIGURE 5. *Typical column from the* Permuterm Subject Index *portion of the* Science Citation Index.

the names of other authors to look up in the *Citation Index;* this process is called "cycling." Figure 7 is a diagram of the basic cycling procedure. [More sophisticated cycling procedures exist, but are not discussed here (*15*).]

Examination of the *Source Index* itself may yield additional relevant current items by a given source author, even though they may not cite any of the known starting references.

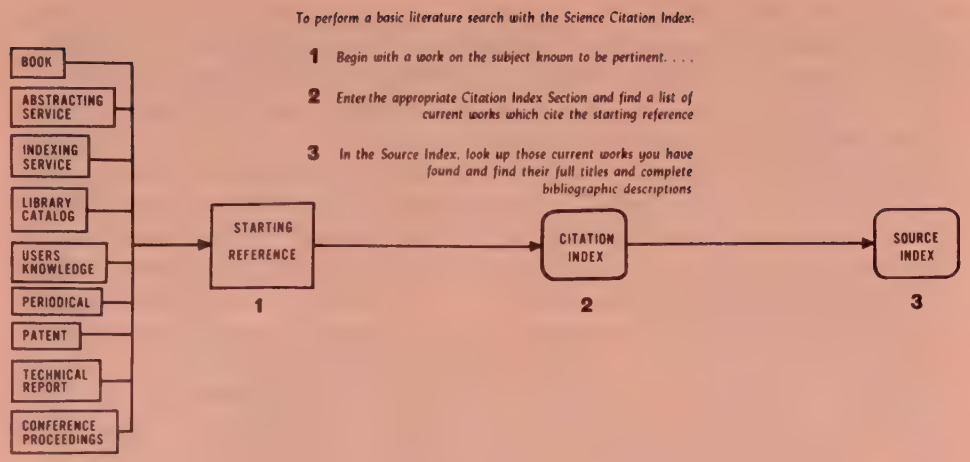
To perform a basic literature search with the Science Citation Index:
1 Begin with a work on the subject known to be pertinent. . . .
2 Enter the appropriate Citation Index Section and find a list of current works which cite the starting reference
3 In the Source Index, look up those current works you have found and find their full titles and complete bibliographic descriptions
BOOK
ABSTRACTING SERVICE
INDEXING SERVICE
LIBRARY CATALOG
USERS KNOWLEDGE
PERIODICAL
PATENT
TECHNICAL REPORT
CONFERENCE PROCEEDINGS
STARTING REFERENCE
1
CITATION INDEX
2
SOURCE INDEX
3

FIGURE 6. *Basic search technique for the* Science Citation Index.

The *Permuterm Subject Index* is used when the searcher does not know a specific author of interest by which he can enter the *Citation Index* or the *Source Index*. To use the *PSI*, the searcher first compiles a list of terms that are likely to describe his topic of interest. The searcher then enters the *PSI* and locates a primary term that is the same as one of the terms he has listed. He then sees all the authors in the current year that have used that term in the title of an item. Usually, the searcher will want to be more selective. He can accomplish this by locating a co-term under the primary term that further defines his topic. He can then select only those authors that have used the co-term as well as the primary term. Once the appropriate author(s) is identified, the searcher can enter the *Source Index* to obtain the full title of an article along with other bibliographic data. The searcher can then obtain desired items and/or look up appropriate items in the *Citation Index* for subsequent citing sources. Figure 8 diagrams the use of the *PSI* to obtain a starting author to conduct an *SCI* search.

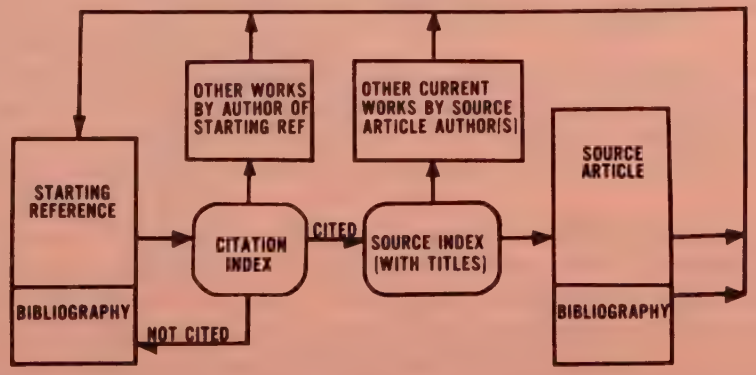

FIGURE 7. *Use of "cycling" in basic search technique for the* Science Citation Index.

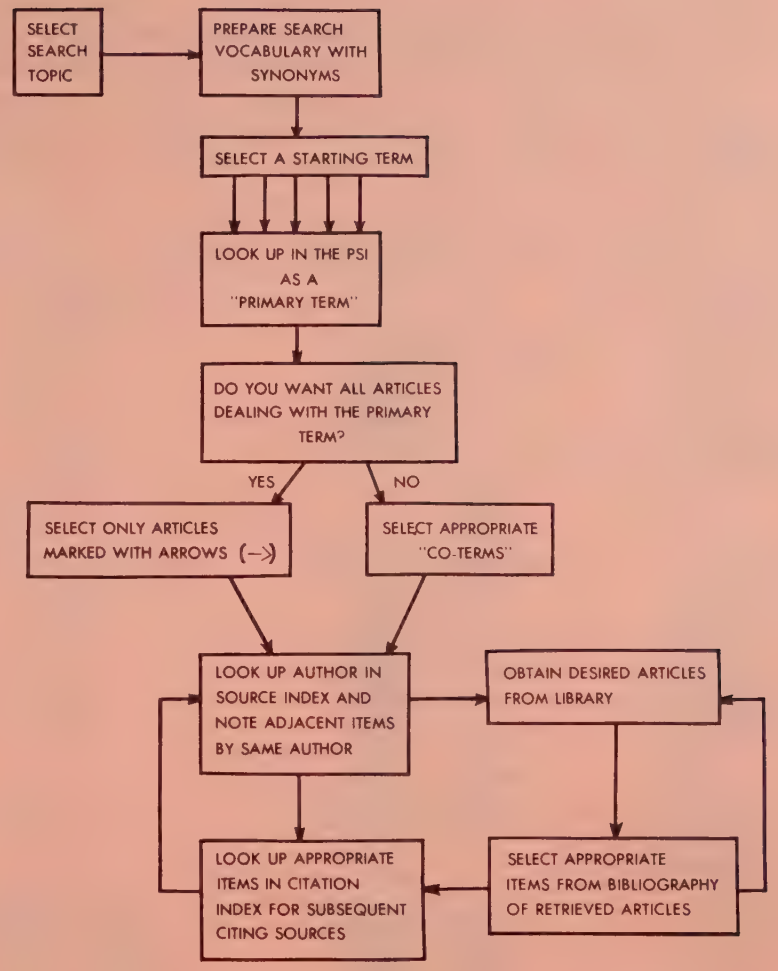
SELECT SEARCH TOPIC
PREPARE SEARCH VOCABULARY WITH SYNONYMS
SELECT A STARTING TERM
LOOK UP IN THE PSI AS A "PRIMARY TERM"
DO YOU WANT ALL ARTICLES DEALING WITH THE PRIMARY TERM?
YES
NO
SELECT ONLY ARTICLES MARKED WITH ARROWS (—>)
SELECT APPROPRIATE "CO-TERMS"
LOOK UP AUTHOR IN SOURCE INDEX AND NOTE ADJACENT ITEMS BY SAME AUTHOR
OBTAIN DESIRED ARTICLES FROM LIBRARY
LOOK UP APPROPRIATE ITEMS IN CITATION INDEX FOR SUBSEQUENT CITING SOURCES
SELECT APPROPRIATE ITEMS FROM BIBLIOGRAPHY OF RETRIEVED ARTICLES

FIGURE 8. *Use of the* Permuterm Subject Index *to obtain a starting author to conduct a* Science Citation Index search.

Evaluation of Citation Indexing

Perhaps the best way to evaluate citation indexing is to examine how the *Science Citation Index* resolves the previously discussed deficiencies of subject indexes. For purposes of review, the deficiencies can generally be summarized as follows:

1. Inability to deal comprehensively with the growing volume of scientific literature on a timely basis.
2. Limited ability to cut across disciplines to pull together related information.
3. Semantic difficulties in preparation and use of the indexes.

COMPREHENSIVENESS AND TIMELINESS

The *SCI*'s method of obtaining comprehensive coverage of the literature has its foundation in Bradford's Law (*16,17*). In general, this law states that a small percentage of journals account for a large percentage of the significant articles in any given field of science. In support of this, a study of *Physics Abstracts* by Keenan and Atherton (*18*) shows that 50% of the items abstracted are taken from only nineteen journals. Also, studies conducted by *Index Chemicus* show that 100 journals account for 98% of all new articles in synthetic chemistry (*19*).

Further analyses have revealed that this concentration of information in relatively few journals is characteristic, not only of the individual disciplines, but of the scientific literature as a whole. Yale Professor Derek J. de Solla Price claims that about 1000 journals contain 80% of *all* scientific articles (*20*). This estimate is confirmed by continuing *ISI* studies. These same studies show that fewer than 1000 journals account for 90% of the *significant* literature, that is, they are the most heavily cited journals (*21*).

These findings lead to the reasoning that if the 2200 journals covered by the *SCI* are properly chosen, most of the world's important scientific literature will be indexed even though there are an estimated 30 to 50 thousand journals in existence.

The publisher of the *SCI* uses several methods to make sure that covered journals are, in fact, the significant ones. First, he has enlisted an editorial board composed of experts in the various disciplines to recommend journals for coverage. Second, subscribers are invited to suggest journals for coverage; such suggestions are then evaluated by the editorial board. Third, large-scale citation analyses are made to see which journals are cited most frequently. This information is especially helpful in determining those journals that are the most used in emerging fields of science. The coverage rationale that has evolved from this system places heavy emphasis on the multidisciplinary journals, supplementing these with the most important journals from the individual disciplines.

There has been some criticism that the *SCI* is biased in favor of covering the Western-language journals. This is, in part, a reflection of the superabundance of research conducted in the United States and abroad which is published in English, German, and French. This bias is also due to the fact that the *SCI* has, in the past, given preference to cover-to-cover English translations of Russian journals. However, it should be noted that the SCI is the only index that covers every article in the Soviet journal *Doklady Akad. Nauk SSSR,* which ranks as the fifth largest journal in the world in terms of articles published each year.

Another Russian journal covered by *SCI* is *Teploenergetica* (Thermal Engineering). It must be admitted, however, that this journal was not covered until 1968 when *ISI* studies showed that it was among the 500 most cited journals in the world. This is typical of the continuous improvement in journal coverage of *SCI*.

The *SCI* provides timely coverage partly because the type of intellectual activity required to compile traditional subject indexes is not required. The author himself "indexes" his article (by way of his citations), enabling the *SCI* to be prepared by a combination of man-machine procedures which facilitate current coverage of the literature. Thus, indexes covering the literature appearing in any calendar quarter are published within sixty days after the end of the quarter; hard-bound annual cumulations are published within four months after the end of the year.

MULTIDISCIPLINARY SEARCHING CAPABILITY

The reason citation indexes provide multidisciplinary searching capabilities is, once again, related to the fact that most indexers are not as qualified as the author himself to decide which previously published material is related to his current work. A citation index takes advantage of the built-in linkages between documents provided by authors' citations by listing together *all* items with common citations.

It is this unique ability to group together items that are often seemingly unrelated that is so important to the modern researcher. Everyone knows that there are important, though small parts of the literature which can be called "pure" physics or "pure" chemistry, etc. There is, however, a larger, less specialized part of the literature that is of interest to physicists, chemists, or other scientists as it relates to their specialties. For example, the chemistry of water is pertinent to oceanography, but it is also pertinent to a vast array of other problems in biology, physics, chemistry, and other applied fields. With the *SCI,* as long as a current item cites a given previous item, it will be indexed under the cited item. It makes no difference if the citing item appeared in a physics journal, a chemistry journal, an engineering journal, or any other type of journal. Therefore, a searcher using the *SCI* can identify a group of items whose contents are in some way related to his topic, but which were published in a variety of journals not normally considered as being related to his discipline.

An interesting example of the utility of the *SCI* in crossing scientific disciplines to retrieve isolated bits of information is found in the relationship between C. H. Whitnah's paper in the *Journal of Dairy Science* in 1959 and a paper by Albert Einstein in *Annalen der Physik* in 1906. This apparently incongruous combination proves to be a legitimate reference by Whitnah to an equation used in calculating molecular dimensions which was applied in a study of the physical properties of milk.

This same article by Einstein was cited in a 1960 article by V. V. Varadaiah in the *Journal of Polymer Science.* In this article, Einstein's equation was used as a basis for calculations relating to the Flory universal constant in the equation for intrinsic viscosity. In two other papers by P. H. Elworthy, one in 1959 in the *Journal of the Chemical Society,* and one in 1961 in the *Journal of Pharmacy and Pharmacology,* the Einstein equation was cited in a discussion on the size and shape of lecithin micelles.

In a 1961 paper by K. Yagi in *Comparative Biochemistry and Physiology,* the Einstein equation is employed in the study of mechanical and colloidal properties

of amoeba protoplasm. Still again in 1961, S. G. Schultz, in the *Journal of General Physiology,* reported biophysical studies in which he used the Einstein viscosity equation to confirm atomic dimensions compiled by L. Pauling. In the *SCI,* each of these widely scattered papers would be retrieved by the use of basic search and cycling techniques.

SEMANTIC PROBLEMS

Citation indexes resolve semantic problems associated with traditional subject indexes by using citation symbology rather than words to describe the content of a document. This concept is rather difficult for most people to comprehend at first. Therefore, the following rather extended example is presented as an aid to understanding.

In 1963, Professor J. Lederberg published a paper in *Nature* entitled "Molecular Biology, Eugenics and Euphenics." In this paper, he established the word "euphenics" as a synonym for the concept of "engineering human development." As long as this paper was the only one in the literature on euphenics, there was effectively a one-to-one equivalence between the word "euphenics" and the citation which identified the document in which it first appeared. The word "euphenics" and the citation "Lederberg J., 63, *Nature* 198, 428" were essentially equivalent symbols for the subject discussed in Lederberg's paper.

Now suppose that other authors use the term "euphenics" in subsequent papers. Customarily, the subsequent authors will give credit to Lederberg as originator of the term by citing his original paper. As a result, in a citation indexing system, the new papers would be automatically grouped together under the citation "Lederberg J., 63, *Nature* 198, 428." In a word indexing system, the subsequent papers would be grouped together under the term "euphenics." Both methods would achieve the same objective—to make information on "euphenics" retrievable. In one system, the word is the indexing term; in the other, the citation is the indexing term.

Once it is understood how a citation can serve as an indexing term, it is not difficult to show why citations are frequently better than words in this role.

Carrying the Lederberg example further, suppose that another author discusses "engineering human development" but does not mention the word "euphenics." As long as the author cites the original paper by Lederberg (which is highly probable), the new paper will be indexed under Lederberg's paper in a citation index. The odds are very slim, however, that any subject indexer would equate "engineering human development" with "euphenics." Thus, the paper that does not specifically mention euphenics has a high probability of being indexed under some other term.

Consider the same situation from the point of view of the user of an index. If the searcher is familiar with the term "euphenics," word indexes will enable him to find the Lederberg article and the subsequent articles that specifically mention "euphenics." The searcher will, however, most likely miss the papers on "engineering human development" unless he is aware that this phrase is an alternate for the word "euphenics." With the *SCI,* the searcher only needs to know that Lederberg had published on this general topic. By simply looking up the name Lederberg, he will find the original paper plus all subsequent citing papers, whether or not they specifically mention "euphenics." This is especially useful to a searcher who is not familiar with the jargon of a different discipline than his own.

Grouping items by a common citation also makes the *SCI* a self-organizing indexing system that is constantly being upgraded by the feedback of more current information.

UNIQUE CAPABILITIES OF CITATION INDEXES

Citation indexes not only resolve many of the difficulties inherent in conventional indexes, certain things can be accomplished with citation indexes that are not at all feasible with other indexes.

Probably the most important of these capabilities is the ability to bring the searcher forward in time from an earlier known reference. The *SCI* is set up so that no matter when an item originally appeared, it will be indexed in the *Citation Index* as long as it is cited at least once in the current year in any of the covered journals. As soon as the searcher locates his starting "cited item" he is brought forward to items that are currently citing the original. This could bridge a gap of fifty years or more (as in the Einstein article discussed above), or it can take the searcher forward in increments as small as a year (say from 1968 for the cited article to 1969 for the citing article).

By utilizing this ability of citation indexes, necessary research questions such as these can be answered:

1. Has this basic concept been applied elsewhere?
2. Has this theory been confirmed?
3. Has this method been improved?
4. Is there a new synthesis for this old compound?
5. Have there been errata or correction notes published for this paper?

Also, any scientist may legitimately wish to determine whether his own work has been applied or criticized by others. Citation indexes facilitate this type of feedback in the communication cycle. A further use of citation indexes is to quickly identify scientists currently working in special branches of science for the purpose of correspondence or personnel selection.

Finally, a mention should be made about the unusual ability of citation indexes to serve as a tool in evaluating literary practices and the structure of scientific literature (*22–24*). Using citation data, networks of interconnected articles may be constructed to trace the history of a subject (*25,26*). Citation counts can also be used to determine the length of time that there is any interest in a given article or topic (*27*). The impact of individual articles as well as the emergence of "superclassic" papers can be studied with citation data (*28*).

FORMAL STUDIES OF CITATION INDEXING

A number of formal studies have been conducted on citation indexing, almost all of which have been based on the *SCI*. Barlup (*29*) describes a study to test allegations that *SCI* searches are "noisy," that is, that they retrieve a high percentage of irrelevant material. In this study, searches were conducted for a range of medical subjects. A team of physicians was used to assess relevance. It was found that 72% of the citing articles located were "closely or directly related in subject content to the cited article." About 22% were "slightly or indirectly related" and about 5% could be considered noise. Of the article found to be directly related to the cited article, about 10% were judged to have titles that did not indicate any relationship.

Spencer (*30*), Rieger (*31*), and Ghosh (*32*) have conducted studies that were mainly concerned with the comprehensiveness and/or the search speed of the *SCI* as compared with discipline-oriented indexes such as *Chemical Abstracts* and *Index Medicus*. On a topic that was clearly within the specialized field covered by *Index Medicus,* Spencer found that the SCI produced better results. Reiger found that the *SCI* was less efficient than *Index Medicus* on a subject that was primarily covered in Italian journals. On the other hand, Ghosh used the *SCI* to conduct a search on "hemorrhagic fever," a narrow field in which articles are almost entirely confined to Indian journals. In this case, the *SCI* produced a high retrieval efficiency.

Future Improvements and Applications

Several aspects of citation indexing require attention if it is to deliver its full potential in the future. Included in these are improvements in the mechanics of the system itself as well as the conception, investigation, and development of new applications.

CITATION PRACTICES OF AUTHORS

One of the most obvious areas for improvement in citation indexing systems is the citation practices of authors themselves. Some scientific articles have hundreds of references; others have none at all. Part of the reason for such disparity in the number of references is the great difference in quality, not only in articles, but also in the journals that publish them. Many authors, editors, and referees are quite meticulous in ensuring that an article includes a comprehensive set of references. For some articles, especially in the less scholarly journals, the references may be inadequate or nonexistent. Information scientists and others have discussed this problem at length, although most of their suggestions are aimed at improving the author's awareness of the value of good citation habits (*33*). Garfield went a step further and discussed the possibilities of an automatic system in which a computer could read an article and determine not only if the references provided are appropriate, but also what references are missing (*34*). Needless to say, such a system is not on the immediate horizon.

STORAGE REQUIREMENTS

A problem that confronts all types of indexes is the growing amount of space required to store the cumulated volumes. One obvious way to approach this is the use of microforms. The improving technology in this area has resulted in increased data storage capabilities through higher reduction ratios and larger magnifications in the optical system of the viewer. An optimized indexing system of the future may make use of remote access to time-shared computers for the current year's indexed material, printed books for three to four year cumulative indexes, and microforms for very large scale cumulative indexes (*35*).

Of course, putting large-scale cumulative indexes on microforms presupposes that such citation indexes are available. To date, this is not the case. It is, however, *ISI*'s announced goal to produce a citation index that will provide total retrospective coverage of the literature of the twentieth century. *ISI*'s plan is to produce this index in stages over the next decade.

ON-LINE ACCESS TO INDEXED DATA

As indicated, one of the logical developments for citation indexing would be to provide remote access to the indexed data. This would be similar to what is provided on a limited basis by the previously discussed project TIP. With such a system, a searcher would be able to sit before a computer console and do his bibliographic research by operating a keyboard linked to a computer with several billion stored characters. The required data would then be automatically printed out on a typewriter or teletype unit or displayed on a cathode ray tube. A perforated tape or set of punched cards could even be produced for use as input to another data processing system which could further refine or analyze the data obtained.

Surprisingly, the main deterrent to implementing such a system on a large scale is not the high cost of the computer. The cost of the computer would be shared by all the users in the network. Each subscriber, however, would have to bear the entire cost of the long distance telephone call required to access the computer. The telephone system is not yet organized so that you pay for the call only during the time you are actually using the computer; you also pay for waiting time. A time-shared computer works for someone else during the silent or thinking period of any one subscriber. You pay for the entire telephone call whether you are using the computer for the whole period or not.

EVALUATION OF SCIENTIFIC PERSONNEL

Although the *SCI* was originally designed to be a retrieval tool for use in library and information science work, there are indications that it will have important

applications as a tool for evaluating scientific personnel. By using the *SCI* data base, it is possible to count the number of citations to a given author. Although there are exceptions, frequently cited authors are usually those who have done the most important work in a given field (*36–39*).

For example, by using the *SCI* data base, it was possible to list the fifty most cited authors for 1967. Two of the 1969 Nobelists—Derek H. R. Barton and Murray Gell-Mann appeared on the list (*40*). Since there are over a million scientists in the world's population, producing a list of fifty that contains two Nobel prize winners is no small achievement. This is especially impressive since the list was compiled by a purely mechanical method which did not require reading the works of these men.

The ability of the citation index to measure the impact of a scientist's work has practical economic consequences. Research administrators could use such a tool as an aid in evaluating present scientific personnel or in hiring new people. Officers of various foundations could use it in awarding prizes, grants, fellowships, and other forms of research assistance.

MARKETING RESEARCH

Another possible use for the data used to compile the *SCI* is in marketing research. In the *Corporate Index* section of the *SCI*, new papers are listed under the companies where the work was performed. Proper analysis of the published information could give a good indication of the type of equipment or supplies needed by a company to conduct its research work. This could be especially valuable information, for example, to a scientific instrument manufacturer trying to anticipate the needs of potential or existing customers.

Conclusion

When citation indexes for scientific literature were first introduced, they were considered supplements to traditional subject indexing methods (*41*). Time has made it clear, however, that citation indexes that are comprehensive and timely are entitled to be considered as independent, fully integrated, library and information science tools. Further, citation indexes can now perform important evaluative, analytical, and predictive roles that were never imagined for subject indexes.

It seems likely, then, that given the right amount of attention and constructive criticism, citation indexing will continue to grow in usefulness and acceptance in the scientific, academic, and industrial communities.

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MELVIN WEINSTOCK

HISTORIOGRAPHS, LIBRARIANSHIP, AND THE HISTORY OF SCIENCE

By
Eugene Garfield

The study of the history of science has recently taken on new importance as an academic discipline. It's easy to see why. With the pace and complexity of scientific developments accelerating, the need for improved guidelines for scientific research becomes more obvious each day. As critical as today's dilemmas of pesticides, pollution, and nuclear weapons are, applications of current scientific research could produce far more serious problems in the future. For example, the work of molecular biologists could produce a happier, healthier world population or, as suggested by some, it could produce some horrible new weapon of war.[1]

Guidelines for scientific research, however, do not simply materialize from thin air. A solid understanding of past developments and the present nature of science itself is required first. Professor Derek de Solla Price claims, "We are getting to the point where there must arise a fairly hard academic discipline to help understand the machinery that makes science act the way it does and grow the way it grows."[2]

By studying the history of science in a more intensive and accurate fashion, we may obtain badly needed insight into such problems as:

a. The role of science in war and peace.
b. The use and misuse of research.
c. The inter-relations of science and technology.
d. The reciprocal responsibilities of scientists and society.
e. The funding and control of science.

f. The determination of future policies on scientific education.
g. The formulation of a public policy on science in general.

With such important questions to be answered, writing the history of science can no longer be looked on as an exercise to satisfy one's curiosity. This endeavor is too important to be fulfilled, as it has been in the past, as an avocation of scientists. What is needed, as in any other complex activity, is a highly trained specialist.

There have been some beginnings towards this objective. In 1950 there were five professional historians of science in North America, and only a handful of schools that offered Ph. D.s in this subject. There are now at least 125 scholars in the field and 25 major universities offering degree programs in the history of science.

Probably the first full-time historian of science was George Sarton of Harvard who founded ISIS, the chief journal of the field. In his early work, Sarton was primarily concerned with precise chronological reconstructions of events. In his subsequent work, he used more of a narrative approach and began to analyze and interpret cause and effect relationships. Later, Alexandre Koyré of Princeton attempted to explain the development of a new scientific concept by examining the work of the scientist against the prevailing philosophical and intellectual assumptions of his time. Koyré, however, did not regard a scientist's outer social milieu as an important factor in shaping his work. More recently, historians of science have begun to stress the relationship between new ideas and the outer social order in which they develop.[3]

Whatever the approach, the historian of science will produce useful results only in direct proportion to the investigative and evaluative tools at his disposal. The difficulty of amassing the facts of history is well known. Much human error is injected on the part of the historian despite his dedication and rigorous standards. Even with an event like the assassination of President Kennedy, which was observed by countless persons, there still remains doubt as to precisely what occurred. Writing the history of science has its own particular difficulties. The motivation and evolution of ideas are frequently omitted from scientific writings. Usually, major achievements in science are easily recognized; minor

or less heralded contributions are difficult to identify and are often overlooked. Even relatively important events may be missed in the plethora of data to be evaluated. It is not surprising, therefore, that there are always numerous uncertainties in writing even a fragment of the history of science.

Historiographs

A new tool that promises to help the historian of science out of this predicament is the "historiograph," a term coined by the Institute for Scientific Information to describe a graphic display of citation data that shows key scientific events, their chronology, their inter-relationships, and their relative importance. Although the technical feasibility of this tool has been established, and a good portion of the required citation data base is available, much work remains to acquaint the historian of science with its availability and its applications. I feel that this is a role that is most properly filled by the librarian. I also feel that if librarians take advantage of this opportunity, they will be actively participating in a field of growing social significance and will have taken one more step towards achieving the dynamic professional image they desire.

As early as 1922 E. Wyndham Hulme used the term "statistical bibliography" in his lectures at the University of Cambridge. Hulme used the term to describe the process of illuminating the history of science and technology by counting documents. In later years, Pritchard used the word "bibliometrics" to describe the quantitative analysis of citations. Russian historians of science have suggested the use of the term "scientometrics" for this type of study.[4]

It was almost by accident, however, that Dr. Gordon Allen triggered the activities that led to the development of the historiograph. In a private communication to me in 1960, Dr. Allen diagrammed the relationships between the citations of a bibliography on the staining of nucleic acid as shown in Figure 1. Although Dr. Allen did not think of this diagram in the context of a historical tool, my examination of it lead me to form the hypothesis that, in most cases, a network diagram of citation relationships would, in fact, constitute a fairly reliable "outline" for writing the history of a field of science. This belief was further reinforced in discussions with Bernal,[5] Price,[6] Leake,[7] and Shryock.[8] I then published an article in American Documentation[9] in 1963 which

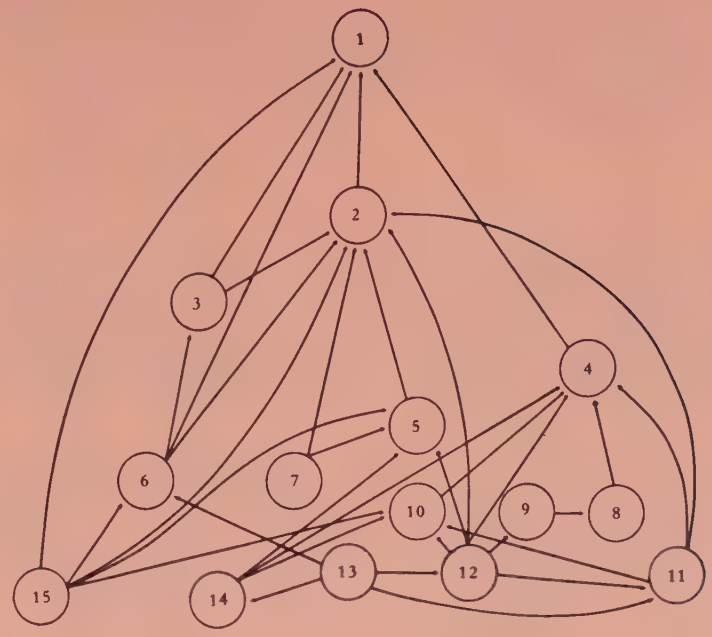


Figure 1. Citation Relationships of a Bibliography on Staining Nucleic Acid.

Key:

1. Rabinowitch. 1941.
2. Michaelis. 1947.
3. Michaelis. 1950.
4. Zanker. 1952.
5. Northland. 1954.
6. Lawley. 1956.
7. Peacocke. 1956.
8. Appel. 1958
9. Appel. 1958.
10. Steiner. 1958.
11. Steiner. 1959.
12. Bradley. 1959.
13. Bradley. 1959.
14. Bradley. 1960.
15. Loeser. 1960.

summarized my thoughts on the subject and proposed some specific applications.

Testing the Validity of Historiographs

In 1964, the Institute for Scientific Information began work on Air Force Office of Scientific Research Contract AF49(638)-1256 to verify whether citation data are useful heuristic tools for the historian.[10] Essentially, the plan of the study was to construct two network diagrams of the history of a field of science: one based on the traditional historical account, and one based on a reconstruction of the same history by using citation relationships. If the two diagrams coincided to any significant degree, it could be concluded that citation data was, in fact, useful in writing the history of science.

To conduct the study it was necessary to select a recent important scientific break-through which was based on the cumulation of years of diverse scientific achievement. The discovery of the DNA code was selected as this event. The basis for this choice was: (1) the publication in 1963 of Dr. Isaac Asimov's book, The Genetic Code,[11] which describes the major scientific developments that led to the laboratory duplication of the process of protein synthesis under control of DNA, and (2) the availability of the Genetics Citation Index and the 1961 Science Citation Index to provide the required citation data.

In our study, Dr. Asimov's book was construed as the historian's account of the discovery of the DNA code. The GCI and the SCI provided most of the data by which we would attempt to construct a history of the same topic by other than expository accounts.

To construct the two historiographs, we proceeded as follows: first we carefully identified the specific papers involved in the discoveries described by Asimov in his history of DNA. These included events explicitly named by Asimov, as well as events not explicitly named but easily identified by his mention of such things as date or place of investigation. Forty key events (called nodes) were identified (36 explicit, 4 implied) which spanned a period of about 140 years (1820 to 1962). The 40 nodes were then plotted chronologically and grouped in broad subject classification such as nucleic acid chemistry, protein chemistry, genetics, and microbiology. Asimov's book was then examined to determine the historical relationships between these 40 nodes. The explicit and implicit relationships were then diagramed as shown in Figure 2.

An extensive literature search was then conducted to identify the specific published works related to each node described by Asimov. The strictest criteria were adopted to insure that the reference citations chosen were the ones which most definitely corresponded to the discovery in question. It turned out that 17 of the 40 nodes represented more than one paper. Thus, 65 articles were required to cover the 40 nodes.

The bibliography of each node article was examined to determine the connections between it and other node articles. The 40 nodes were then redrawn in exactly the same positions and lines drawn to show the direct and indirect citation connections as shown in Figure 3. Finally, the two diagrams were superimposed and the degree of coincidence determined. Figure 4 is a summary of the relationships observed from the superimposition of the two diagrams.

From this comparison it was determined that: (a) enough of the network diagrams were coincident so that it could be concluded that citation data could be used to develop the history of a field; and (b) significant new relationships between nodes were identified by citation linkages which did not coincide with Asimov's linkages.

Over and above these findings, it became clear that one picture was indeed worth a thousand words. The graphic displays of the history made it easier and quicker to grasp the total flow of the development of the field. Further, they made it possible to tie-in seemingly unrelated events. It was at this point that we became convinced that the historiograph would be a boon to the historian.

Need for Automatic Diagraming

It soon became obvious, however, that the manual production of historiographs would severely limit the usefulness of this tool. As the number of nodes increased in a history, it soon became almost physically impossible to draw all the connecting lines. Also, as the lines increased, the clarity of the diagram decreased. [Cont. p. 392.]

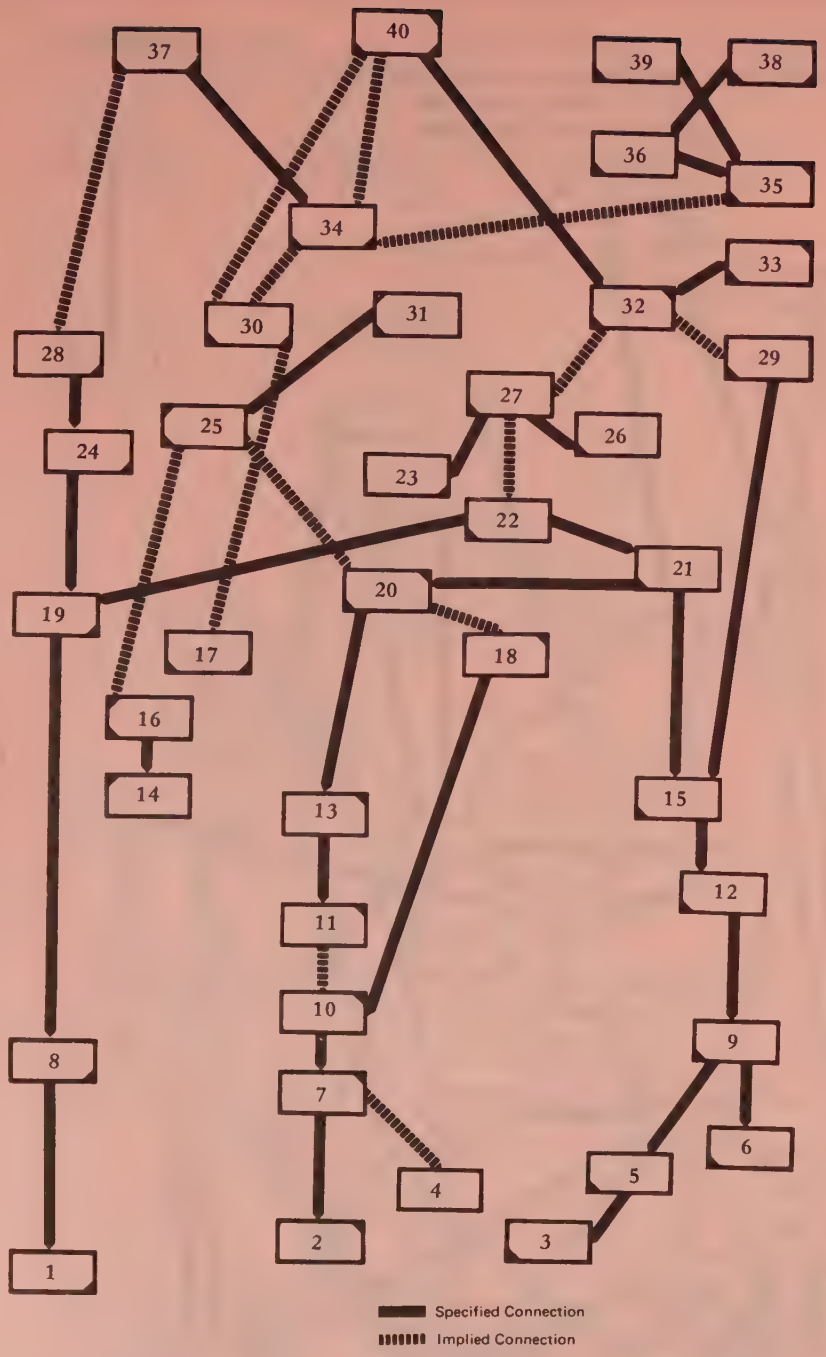


Figure 2. Asimov's Specified and Implied Relationships in the History of DNA

1. Braconnot. 1820.
2. Mendel. 1865.
3. Miescher. 1871.
4. Flemming. 1879.
5. Kossel. 1886.
6. Fischer, Piloty. 1891.
7. De Vries. 1900.
8. Fisher. 1907.
9. Levene, Jacobs. 1909.
10. Muller. 1926.
11. Griffith. 1928.
12. Levene, Mori, London. 1929.
13. Alloway. 1932.
14. Stanley. 1935.
15. Levene, Tipson. 1935.
16. Bowden, Pirie. 1936/37.
17. Caspersson, Schultz. 1938/39.
18. Beadle, Tatum. 1941.
19. Martin, Synge. 1943/44.
20. Avery, MacLead, McCarty. 1944.
21. Chargaff. 1947.
22. Chargaff. 1950.
23. Pauling, Corey. 1950/51.
24. Sanger. 1951-53.
25. Hershey, Chase. 1952.
26. Wilkins. 1953.
27. Watson, Crick. 1953.
28. Du Vigneaud. 1953.
29. Todd. 1955.
30. Palade. 1954-56.
31. Fraenkel, Conrat. 1955-57.
32. Ochoa. 1955/56.
33. Kornberg. 1956/57.
34. Hoagland. 1957/58.
35. Jacob, Monod. 1960/61.
36. Hurwitz. 1960.
37. Dintzis. 1961.
38. Novelli. 1961/62.
39. Allfrey, Mirsky. 1962.
40. Nirenberg, Matthaei. 1961/62.

Figures 2 and 3 Key

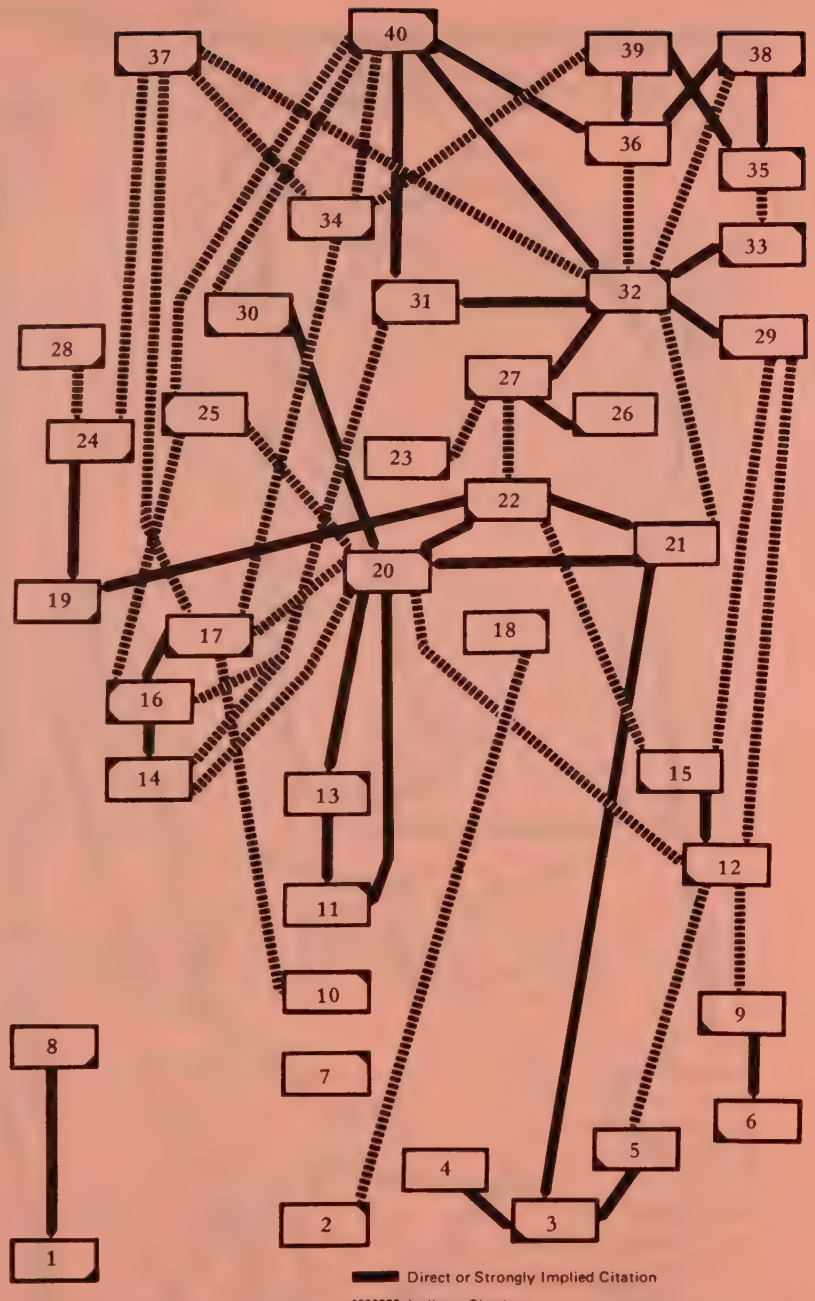
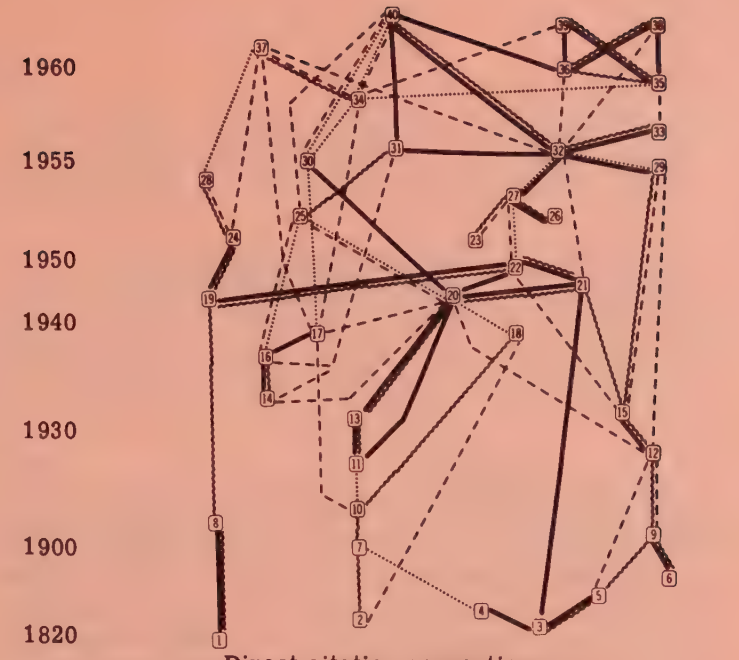


Figure 3. Direct and Indirect Citation Relationships in the History of DNA



DATE	NAME & NODE	DATE	NAME & NODE
1820	Braconnot-1	1947	Chargaff-21
1865	Mendel-2	1950	Chargaff-22
1871	Meischer-3	1950-51	Pauling, Corey-23
1879	Fleming-4	1951-53	Sanger-24
1886	Kossel-5	1952	Hershey, Chase-25
1891	Fischer, Piloty-6	1953	Wilkins-26
1900	DeVries-7	1953	Watson, Crick-27
1907	Fischer-8	1953	DuVigneaud-28
1909	Levene, Jacobs-9	1955	Todd-29
1926	Muller-10	1954-56	Palade-30
1928	Griffith-11	1955-57	Fraenkel-Conrat-31
1929	Levene, Mori, London-12	1955-56	Ochoa-32
1932	Alloway-13	1956-57	Komberg-33
1935	Stanley-14	1957-58	Hoagland-34
1935	Levene, Tipson-15	1960-61	Jacob, Monod-35
1936-37	Bawden, Pirie-16	1960	Hurwitz-36
1938-39	Caspersson, Schultz-17	1961	Dintzis-37
1941	Beadle, Tatum-18	1961-62	Novelli-38
1943-44	Martin, Synge-19	1962	Allfrey, Mirsky-39
1944	Avery, MacLeod, McCarty-20	1961-62	Nirenberg, Matthaei-40

Figure 4.

Figure 5. Linear Display

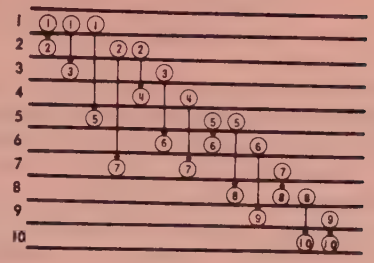


Figure 6. Cascade Display

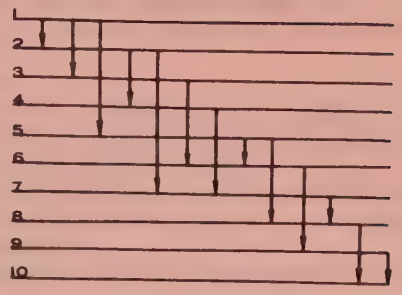


Figure 7. Waterfall Display

Caption for Figure 4 (p. 389): Comparison of History of DNA as Derived from Asimov's Specified and Implied Relationships vs. History of DNA as Derived from Direct and Indirect Citation Relationships.

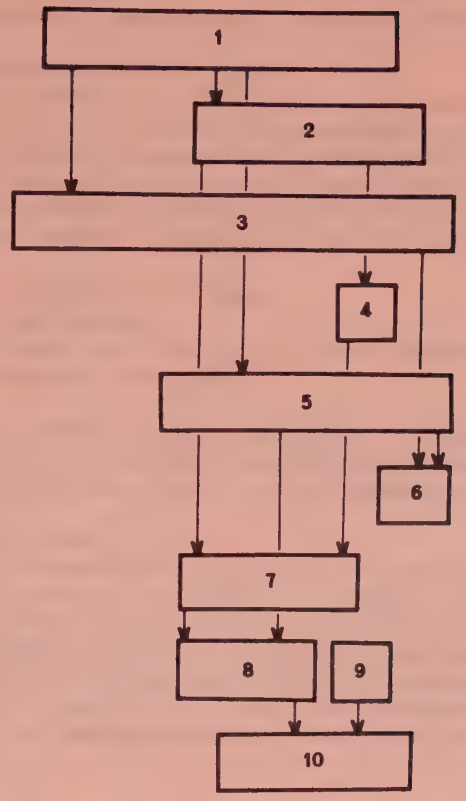


Figure 8. Rectangular-Node Cascade Display

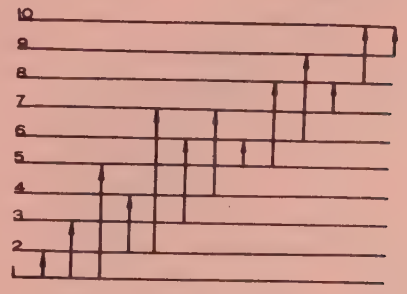


Figure 9. Fountain Display

In 1967 ISI began an investigation of the problem of the automatic drawing of network diagrams containing nodes with many interconnections. This work was performed under Air Force Office of Scientific Research Contract AF49(638)-1547 and its objective was to identify an existing method of automatic diagraming or develop a new one that would:

a. Allow algorithmic generation and manipulation of the diagram.
b. Allow the display of 100 or more nodes.
c. Allow the display of an unrestricted number of connections between nodes.
d. Be simple to understand and aesthetically pleasing.
e. Allow direct printout from a digital computer or plotter.

All known methods of automatic diagraming were investigated. These included methods used for:

1. Flow charts and PERT charts[12-26]
2. Organization charts[27]
3. Electronic circuits[28-38]
4. Tree systems[39, 40]
5. Routing systems[41-44]

The investigation of previous work uncovered no method that satisfied all specified criteria. Even if all other criteria were met, the displays became inordinately complicated when more than 10 nodes were involved. It was then felt that the solution to this problem was in developing a unique way of ordering nodes and/or interconnecting lines. Some of the display formats evaluated and rejected included:

a. Linear Array (see Figure 5)
b. Cascade Display (see Figure 6)
c. Waterfall Display (see Figure 7)
d. Rectangular-Node Cascade Display (see Figure 8)
e. Fountain Display (see Figure 9)

Diagonal Display

Finally, the concept of "Diagonal Display" was evolved and refined.[45] As shown in Figure 10, Diagonal Display involves arranging the nodes on a diagonal with interconnections shown by lines in the areas adjacent to the nodes. In this original conceptual drawing, the dots indicate a connection between nodes.

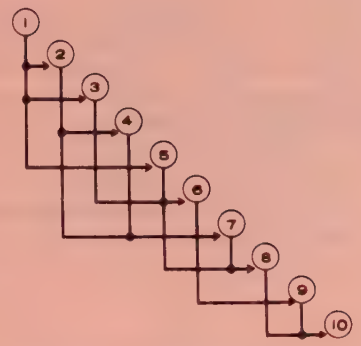


Figure 10. Original Diagonal Display Concept.

Since the Diagonal Display concept had been entirely hand-drawn up to this point, it was now necessary to determine how this type of plot could be drawn automatically. The first attempts involved the use of a standard computer printer. Although this was quite satisfactory for many applications, it was felt that even the addition of special characters to the printer would not give the printout the over-all visual clarity desired.

With particular concern for improving the clarity of line junctions and crossovers, we then considered several other types of output devices. Included in these were:

a. Electric lamp display
b. Cathode ray tube (CRT) direct display
c. CRT plotter
d. Incremental pen plotter

It soon became obvious that although each device could be used in the system, the best choice for the type of printout desired would be an incremental pen plotter. Typically, with such a device, digital signals cause the pen to move in increments in linear directions to any point on a sheet of paper. By drawing very small, consecutive increments, the pen can also produce curved lines.

A number of commercially available incremental pen plotters were considered, and a CalComp 563 was selected

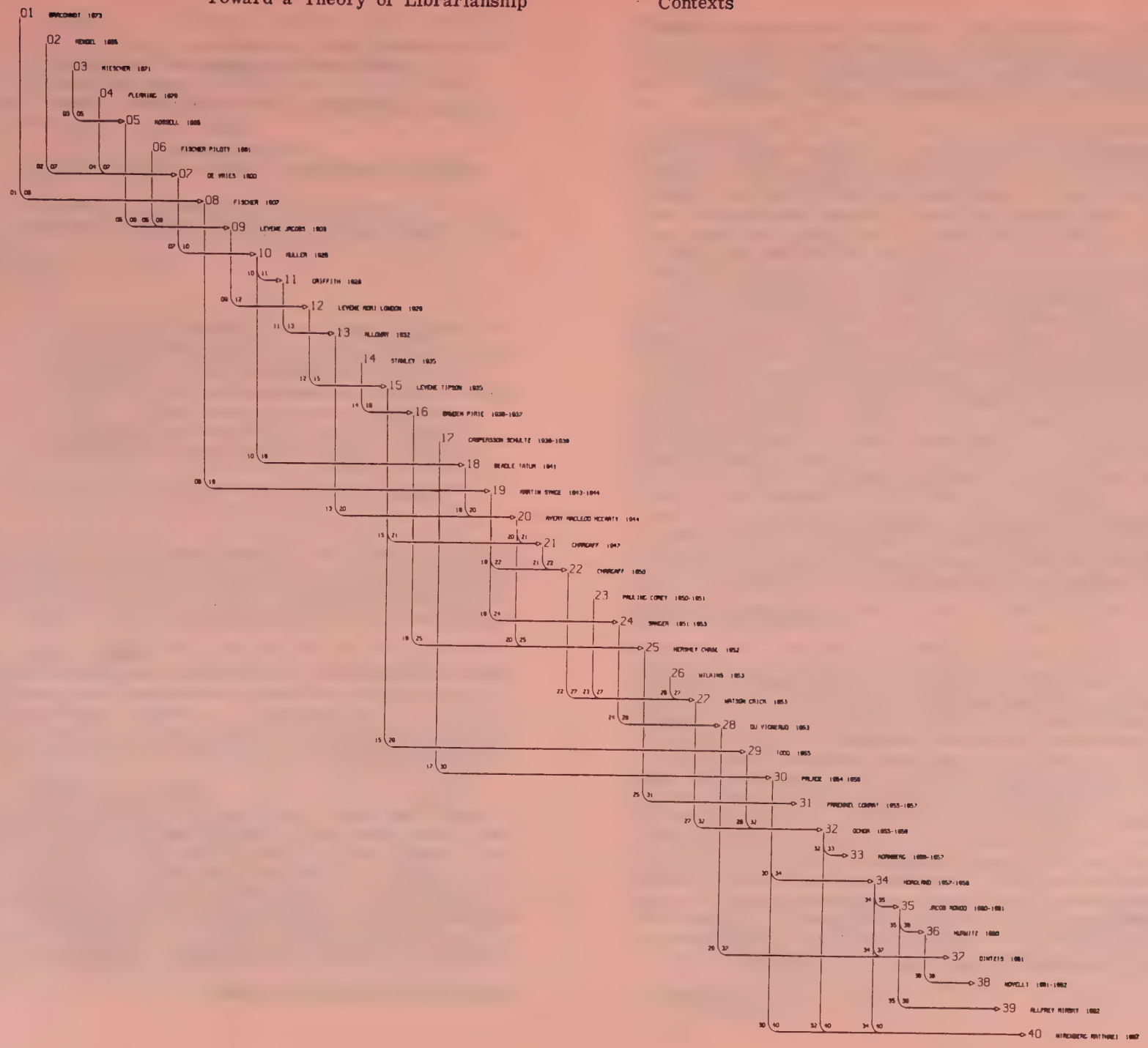


Figure 11. Printout of Computer-Generated Diagonal Display.

as the most suitable. An appropriate program was written and several variations of the basic Diagonal Display format shown in Figure 10 were developed, with the most significant modifications being the way connections and crossovers of lines were handled. Most improvements in the selected display format involved the use of gaps in vertical lines to indicate crossovers, rounded elbows to show connections, and the addition of numbers at each elbow to show what nodes were connected at that point.

A printout was generated for the 40 nodes contained in the previously discussed history of the genetic code. This printout is shown in Figure 11. A comparison of Figure 11 with Figure 3 (the hand-drawn network of the DNA history) will make obvious the increased clarity provided by the automatic Diagonal Display.

Another test was conducted to produce a printout for a network with 80 nodes. It was concluded that this was as visually clear as the 40-node printout. In fact, it is now felt that even printouts containing 250 nodes would be equally clear.

To summarize all this, ISI's work has shown:

1. That citation relationships can be of great use in writing the history of a field of science.
2. That a graphic representation (historiograph) helps to clarify the relationships and give a quick, over-all view of the development of the field.
3. That relatively large-scale historiographs can be automatically produced on a practical basis.

Applications

Manually or automatically drawn historiographs can be used to advantage by the historian of science to:

a. Reduce a large number of seemingly unrelated events to a coherent pattern.
b. Identify classic papers.
c. Identify break-through events within the development of a field.
d. Identify the descendant of a development.
e. Keep track of how often an event influences later events.

By removing the vagaries of manual drawing, however, automatically produced historiographs provide additional depth of analysis. For example, because similar relationships will be consistently displayed in the same way, certain types of pattern analyses can be performed. The similarities or differences between the historiograph patterns of one field and those of another could lead to meaningful insights. This type of comparison could also apply to historiographs generated for sub-fields of a larger area of scientific endeavor. Pattern analysis could also be used to identify unusual chronological spacing between events and to determine how fields of science coalesce or fragment. Automatic manipulation also makes it easy to emphasize or leave out certain events in a given history. The historian can then determine if there were any alternate paths to subsequent discoveries.

Role of the Librarian

At this point, the librarian may legitimately ask, "What has all this to do with me? Of what use will historiographs be to me in my work? Where do I fit in?" Librarians should look on historiographs as tools that rightfully belong in their domain. Just as much as an index is a retrieval tool, so too is the historiograph. For example, what better way could there be for the librarian to select key papers for a newcomer to a field to read than by examining a pertinent historiograph? In the not too distant future I can envision a historian of science requesting information from the library on a specific development. The librarian will then, as he does now, compile an appropriate bibliography by manual or automatic means. However, another step will then take place that will add a new level of importance to the assistance a researcher can expect from a librarian. The librarian will then sit at a computer console (or some similar device) and use the bibliography as input data. He will ask the computer to print out or display all or part of the citation relationships existing in the input bibliography. The librarian will then assist the researcher in identifying key papers or obscure but important papers. The value of this type of service, especially with lengthy bibliographies, is self-evident.

Another important contribution that could be made by a librarian with a historiograph to analyze, would be the identification of a key paper from another field that had an impact on the field of interest. With experience, the librar-

ian might also become skillful at recognizing certain "classic" historiograph patterns. Perhaps then, he will be able to help the historian identify the signs of declining or emerging disciplines.

The types of analyses described above can be performed by using historiographs generated from citation data currently contained in the Science Citation Index. In the near future, ISI will publish, for the first time, the Journal Citation Index. The JCI will be a statistical compilation that shows how often other journals cite each of over 2000 journals. The JCI will also show how often these 2000 journals cite any of over 25,000 other journals. With this type of data base available, it will be possible to draw historiographs that show relationships between journals rather than individual papers. This, in turn, will permit several additional types of analyses to be made.

For example, it would be possible to show the emergence and growth of a field of science by tracing the history of journals in that field. To do this, a number of journals could be used as nodes in a network. The nodes would be arranged chronologically according to when volume 1 of each particular journal appeared. The citation patterns between the journals over the years could then be drawn and the relationships observed. With this kind of display it would be possible to trace, in terms of journal development, how scientific fields branched out from older existing fields. You could literally tell which journals were the "parents" of other journals. Besides being an aid in writing the history of science, this would also be a useful tool for library science researchers.

Another use for network diagrams made from Journal Citation Index data would be to determine what disciplines make up a scientific field. For example, you could start with certain hard-core genetics journals (such as The American Journal of Human Genetics, Annals of Human Genetics, and Genetics) and have them represented as a kind of bulls-eye node in the center of a network diagram. Then, you could represent other journals which cite these journals or are cited by these journals as other nodes in the diagram. Those journals that had the highest number of inter-citations with the core journals would be positioned closest to the diagram bulls-eye. Those with a lesser number of inter-citations would be placed proportionately further away. Thus, with one diagram, you could get a quick, clear picture of all the

disciplines involved in genetics and the extent of their involvement. Not only would this be a help to the historian of science, it would help the librarian in such things as advising the head of a science department on what journals he should receive. There is no need to emphasize the beneficial effect the ability to give such service will have on the professional status of librarians as a group.

A Project for Students

In conclusion, I would like to propose a project that would be quite appropriate for library school students. All the preceding discussion of historiographs and other types of network diagrams presupposes the existence of large-scale citation indexes to provide the data necessary to draw the historiographs. ISI has produced such indexes for all but two years of the 1960's and work is now in progress so that citation indexes for the missing years (1962 and 1963) will be available by the end of 1971. Our goal is to produce total citation index coverage for the literature of the 20th century, and steps are being taken in this direction.

ISI would like to establish a similar goal for the literature of the 19th century. In particular, we would like to start this project by creating citation indexes for the rather limited American scientific literature of that period. Unfortunately, 19th-century scientific authors had very poor citation practices--very few explicit citations were made, although implicit citations were common. Thus, before ISI's citation indexing techniques could be applied, explicit citations would have to be created from the implicit ones. It is the work of creating these explicit citations that I suggest be taken on by library students.

The value of this information to historians of science, and perhaps to civilization, would begin to approach the magnitude of the respect we all have for Jesse Shera.

Notes

1. J. Lederberg, "Essence of Life or Death?" Current Contents, 15 (April 15, 1970), M1. See also: Washington Post, March 28, 1970.
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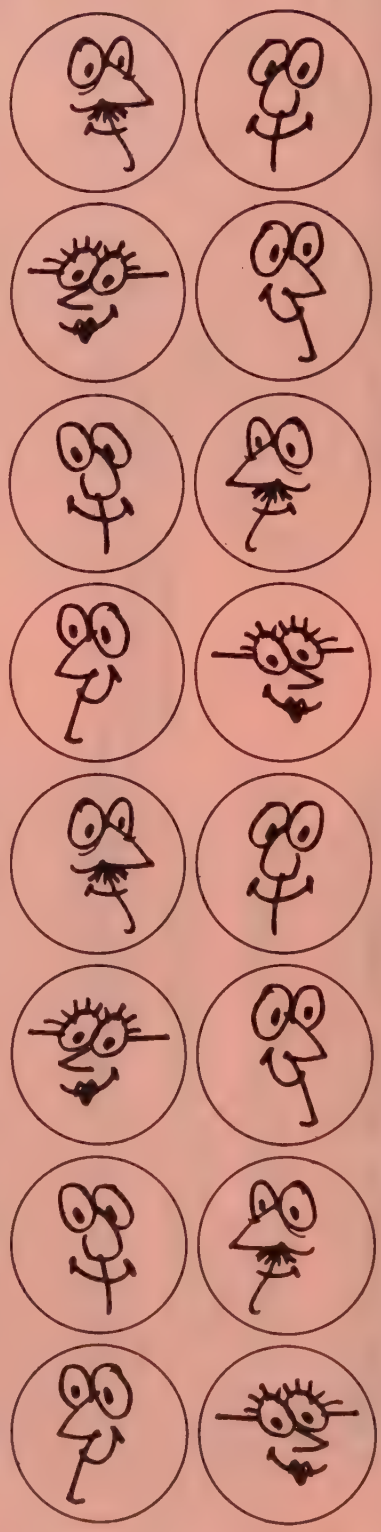

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and some of them are your neighbors.

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SCIENCE

Citation Analysis as a Tool in Journal Evaluation

Journals can be ranked by frequency and impact of citations for science policy studies.

Eugene Garfield

As a communications system, the network of journals that play a paramount role in the exchange of scientific and technical information is little understood. Periodically since 1927, when Gross and Gross published their study (*1*) of references in 1 year's issues of the *Journal of the American Chemical Society*, pieces of the network have been illuminated by the work of Bradford (*2*), Allen (*3*), Gross and Woodford (*4*), Hooker (*5*), Henkle (*6*), Fussler (*7*), Brown (*8*), and others (*9*). Nevertheless, there is still no map of the journal network as a whole. To date, studies of the network and of the interrelation of its components have been limited in the number of journals, the areas of scientific study, and the periods of time their authors were able to consider. Such shortcomings have not been due to any lack of purpose, insight, or energy on the part of investigators, but to the practical difficulty of compiling and manipulating manually the enormous amount of necessary data.

A solution to this problem of data is available in the data base used to produce the *Science Citation Index* (SCI) (*10*). The coverage of the SCI is international and multidisciplinary; it has grown from 600 journals in 1964 to 2400 journals in 1972, and now includes the world's most important scientific and technical journals in most disciplines. The SCI is published quarterly and is cumulated annually and quinquennially, but the data base from which the volumes are compiled is maintained on magnetic tape and is updated weekly. At the end of 1971, this data base contained more than 27 million references to about 10 million different published items. These references appeared over the past decade in the footnotes and bibliographies of more than 2 million journal articles, communications, letters, and so on. The data base is, thus, not only multidisciplinary, it covers a substantial period of time and, being in machine-readable form, is amenable to extensive manipulation by computer.

In 1971, the Institute for Scientific Information (ISI) decided to undertake a systematic analysis of journal citation patterns across the whole of science and technology. It began by extracting from the data base all references published during the last quarter of 1969 in the 2200 journals then covered by the SCI. The resultant sample was about 1 million citations of journals, books, reports, theses, and so forth. To test whether this 3-month sample was representative of the year as a whole, it was matched against another sample made by selecting every 27th reference from the approximately 4 million references collected over the entire year. The two samples were similar enough in scope (number of different items cited) and detail (relative frequency of their citation by different journals) to convince us that the 3-month data constitute a valid sample.

With this data from the last quarter of 1969, ISI produced three listings that should greatly further efforts to map the network of journal information transfer. The first listing is a cumulation of all citations of the same titles. It gives the number of times each different title was cited during the last quarter of 1969 and distributes that total over the years in which cited issues, editions, and so on were published. This distribution is shown by year from 1969 back to 1960 and in aggregate form for earlier years (*11*). Sample items from this listing are shown in Fig. 1.

The second listing is a detailed citation history of each cited title. It shows how frequently each title was cited and, as above, gives subtotals by year of publication. These citation totals and subtotals are further broken down to show how frequently each journal covered by SCI cited the title in question and the distribution by year of publication of cited items. A portion of this listing is shown in Fig. 2.

The third listing is similar to the second, but it arranges the data by citing journal rather than by cited title. The listing shows, for each journal covered by the SCI, the number of references published in issues processed for the SCI during the last quarter of 1969, and it breaks that total down by publication date of the items to which reference was made. The listing further identifies all titles cited in those references and the frequency with which they are cited. As in Fig. 2, the counts for each cited title are broken down by year of publication. A portion of this listing is shown in Fig. 3.

These listings afford, I believe, a new view of the literature in scientific and technical journals. Before discussing some of its implications, however, I note possible limitations of the data and problems encountered in analyzing the sample.

The SCI data base is, to my knowledge, the largest and most extensive of its kind. It does not, however, cover every scientific and technical journal. (Nor, as seems likely in view of findings discussed later in this article, need it attempt to.) The list of most frequently cited journals (the first 152 of these journals are given in Fig. 4) shows that the SCI has been remarkably successful in covering all "significant" and "important" journals, insofar as citation counts can be considered a reliable measure of "importance" and "significance." It is, of course, possible that one or more journals not covered by the SCI, and thus not represented in the data here, may cite themselves and other journals so frequently that their inclusion would alter their own and other journals' rankings. Such may be the case, for example, with certain journals

The author is president of the Institute for Scientific Information, Philadelphia, Pennsylvania 19106.

ITEM NO.	CITED JOURNAL	TOTAL	NUMBER OF TIMES CITED									
			1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	REST
00243	ACTA PATH JAP	36	1	3	3	4	6	7	3	·	·	3	6
00244	ACTA PATH MICROBIOL	736	29	69	87	59	56	59	44	48	20	31	234
00909	AM J ANAT	637	7	27	37	56	32	41	15	26	15	21	360
00910	AM J BOT	1171	13	74	87	68	73	66	57	57	47	49	580
00911	AM J CANCER	103	·	·	·	·	·	·	·	·	·	·	103
00912	AM J CARDIOL	1238	73	201	199	247	134	70	78	66	53	73	44
03591	CAN J SOIL SCI	33	·	2	1	4	1	2	6	6	3	2	6
03592	CAN J SURG	61	2	6	4	3	13	11	3	3	5	1	10
03593	CAN J TECH	3	·	·	·	·	·	·	·	·	·	·	3
03594	CAN J ZOOL	356	46	38	40	28	24	20	19	29	17	22	73
08990	ISRAEL J AGR RES	29	1	1	7	·	1	8	7	2	1	·	1
08991	ISRAEL J BOT	16	·	·	3	5	4	3	1	·	·	·	·
08992	ISRAEL J CHEM	91	14	25	18	10	11	6	7	·	·	·	·
09651	J INVEST DERM	695	24	78	81	69	65	46	30	31	34	22	215
09652	J IOWA MED SOC	13	·	·	·	5	·	·	1	2	·	·	5
09653	J IRISH MED ASS	16	1	3	4	3	3	·	·	·	·	·	2
13390	P CALIF ACAD SCI	18	·	·	1	4	3	·	1	·	·	·	9
13391	P CAMBRIDGE PHIL SOC	389	8	22	23	11	12	9	13	11	17	3	260
19755	Z ANGEW CHEM	47	·	·	1	·	·	1	·	·	1	1	43
19756	Z ANGEW ENT	35	·	·	1	1	4	2	4	1	1	5	16
19757	Z ANGEW GEOL	49	2	7	5	8	5	5	4	4	2	1	6
19758	Z ANGEW MATH	10	1	·	1	·	1	·	1	1	1	·	4

Fig. 1. Journal citation frequencies. The data show the total number of times each journal was cited during the last quarter of 1969 and the distribution by publication date of the particular issues cited. The journals shown were taken from a list of more than 20,000 items (journals, books, reports, theses, and so on) cited during the last quarter of 1969 in journals covered by the SCI.

in foreign languages, particularly those that do not use the Roman alphabet. As is true of most secondary services, the SCI is less likely to cover a journal that presents problems of transliteration (or transcription) and translation than one that does not. It may be, therefore, that this fact has adversely influenced the ranking of Russian and Japanese journals, for example, which probably cite other Russian and Japanese journals more frequently than do journals in other languages. Whether such an underrepresentation exists, and, if so, to what extent, is difficult to determine. Nevertheless, Soviet information scientists have reported that the SCI does a surprisingly good job of covering Soviet journals. In fact, Soviet scientists seem to have made more use of citation analysis in studies of science policy than have any other scientists (*12–14*).

One must remember that the listings were prepared from a 3-month sample of journal issues. The size of the sample is certainly more than adequate for statistical purposes, and, as noted, the sample has been matched against another sample of more than adequate size. It is nevertheless possible that random events in journal publishing have introduced some degree of distortion. For example, a journal may have, in the time period covered by the sample, departed from its usual policy of accepting only original research communications and published one or two review articles with extensive bibliographies. In the sample, that journal would appear to cite other publications more widely and more frequently than it actually does on the average. Or, a journal may have published an article that has since been cited with extraordinary frequency (*15*). In such a case, a single article will have had an inordinate influence on the ranking of the journal (*16*). Finally, a journal that publishes relatively few articles, but articles of high quality that both cite and are cited frequently, may seem to have considerably less impact than it actually does, particularly if the journal appears infrequently or irregularly and thus escapes representative inclusion in a sample of this type.

CITED JOURNAL / CITING JRNL	TOTAL	NUMBER OF TIMES CITED										
		1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	REST
J LINN SOC BOT ==========>	17*	0	3	0	3	1	0	0	0	1	1	8
NEW PHYTOL	5	0	1	0	1	0	0	0	0	1	0	2
ALL OTHER (10) ----------	12	0	2	0	2	1	0	0	0	0	1	6
J LIPID RES ==========>	902*	33	108	109	98	133	121	75	83	60	58	24
BIOC BIOP A	83	5	8	16	6	13	15	4	6	5	1	4
BIOCHEM J ----------	39	0	4	7	3	6	7	3	3	4	1	1
J BIOL CHEM	39	0	6	7	3	8	3	6	2	2	2	0
J CHROMAT ----------	30	2	3	4	4	2	6	0	4	2	1	2
J CLIN INV	29	1	3	3	3	7	2	2	3	3	1	1
J LIPID RES ----------	28	5	5	4	2	4	1	2	0	3	1	1
P SOC EXP M	25	0	3	1	3	4	3	2	5	1	1	2
MILIT MED ----------	5	0	0	2	0	0	0	1	1	0	1	0
NY ST J MED	5	0	1	1	2	0	0	0	1	0	0	0
ALL OTHER (123) ----------	219	6	19	16	29	43	27	23	15	15	23	3
J LOND MATH SOC =====>	173*	16	19	19	11	8	10	2	8	4	8	68
J LOND MATH	71	8	12	7	5	4	4	0	4	2	4	21
T AM MATH S ----------	11	2	1	2	1	0	0	0	1	0	0	4
P CAMB PHIL	8	1	0	3	0	0	0	0	0	0	0	4

Fig. 2. Statistics on cited journals. The data on cited journals show the total number of times each journal was cited in the last quarter of 1969 and the distribution by publication date of cited issues. For each cited journal, the figure identifies all other journals ("citing journals") that referred to it five times or more during the quarter year (and the distribution of these citations by publication date of cited issues). Journals that referred to the cited journal less than five times are grouped as "all other." The data were taken from a complete list of journals cited during the last quarter of 1969 in journals covered by the SCI.

In analysis of the sample, an immensely irksome problem was the inconsistency with which different authors and editors abbreviate journal titles in their references. As far as possible, this inconsistency has been minimized by standardizing all variants of the same titles and their abbreviations. Some idea of the work involved in this standardization can be had from the fact that there were more than 100,000 different abbreviations for the 12,000 individual journal titles cited in the 3-month sample (*17*). Inconsistency was made worse by inaccuracy. In some cases, it was possible to disentangle the results of bibliographic carelessness—as, for example, when *Sol. St. Phys.* proved to have been used indiscriminately to identify *Solid State Physics* (Academic Press); *Solid State Physics, Proceedings of the Physical Society, London; Soviet Physics Solid State* (a cover-to-cover translation of *Fizika Tverdogo Tela*); and even *Physica Status Solidi* (Akademie-Verlag). In other cases, however, it was impossible, without going to inordinate expense, to determine exactly which journal was being cited—for example, when *Ann. Phys.* was found to have been used for *Annalen der Physik, Annals of Physics*, and *Annales de Physique*. It is not surprising that the editors of at least one publishing house, having decided that the problem of unique and unambiguous journal title abbreviations is simply insoluble, now use full titles in every reference to a journal.

Finally, it was necessary to make some arbitrary decisions in order to avoid unduly complex bibliographical technicalities. Journals merge; they split into new journals, or into "sections" that may be published separately or together. They change titles, with or without continuing their numbering of volumes and issues. Some journals appear in one or more translations; some such translations are complete, others selective, and some are similarly, others differently, numbered. Supplements outside a regularly enumerated series must be accounted for. In a few cases, journals periodically change their titles on single issues to note special subject matter (*18*). Serials librarianship abounds in difficulties of this type, and there is frequently disagreement on how best to handle them. Briefly: a journal published in sections is considered a single journal; translations of journals are identified with the original versions; changes of title have been ignored and previous volumes attributed to the current title; journals absorbed or incorporated by other journals have been credited to a new or remaining title; supplements have been considered as issues in the regular series. For the purposes of this analysis, such arbitrary decisions seem justified; as required in the future, the raw citation data can, of course, be compiled and manipulated in such a way as to differentiate between changed titles, sections, translations, and so forth.

Some Preliminary Analyses

Figure 4 shows the result of a familiar application of citation analysis. It is a listing of journal titles ranked by the frequency with which they were cited in the references of journals indexed for SCI. This partial listing gives the top 152 of the 565 most frequently cited journals of science and technology. (The top 152 account for 50 percent of all references to journals.)

It is apparent, even from the makeup of this partial listing, that a good multidisciplinary journal collection need contain no more than a few hundred titles. That is not to say that larger collections cannot be justified, but it does say something indisputable, in terms of cost and benefit, about how large a journal collection need be (or how small it can be) if it is to provide effective coverage of the literature most used by research scientists.

It is also immediately apparent that the majority of all references cite relatively few journals. Figure 5, which plots the distribution of citations among cited journals, shows that only 25 journals (little more than 1 percent of SCI coverage) are cited in 24 percent of all references; that only 152 journals (those listed in Fig. 4) are cited in 50 percent of all references; that only 767 journals are cited in 75 percent of all references; and that only 2000 or so journals are cited in 85 percent of all references. In addition, the data from which Fig. 5 was plotted show that only 540 journals are cited 1000 or more times a year, and that only 968 journals are cited even 400 times a year. When one considers that only 165 or so journals publish 400 or more papers a year, the impact of the average paper must be recognized as relatively slight. In fact, the average paper is cited only 1.7 times a year (*19*).

This analysis gives good reason for concern about any increase in the number of scientific and technical journals. It is not merely that increased numbers of journals make coverage of the literature more difficult, but that so many journals now being published seem to play only a marginal role, if any, in the effective transfer of scientific information. If one accepts the contention (highly debatable, in my opinion) that there are between 50,000 and 100,000 scientific and technical "journals," the data presented here indicate that only 5 to 6 percent of them are being cited. If such percentages seem unrealistically low, it may be because the estimate of 50,000 to 100,000 scientific and technical journals (requiring indexing and abstracting for "total coverage" of the literature) is itself as unrealistic as information scientists have for some time suspected it must be (*20*). Meaningful discussion of this point—the best of current serials catalogs notwithstanding—is probably impossible in the absence of agreement on what, quantitatively as well as qualitatively, constitutes a "scientific journal." At the very least, it may be advisable to distinguish as journals only those periodicals that publish, for example, 20 or more articles a year.

The predominance of a small group of journals in the citation network has been confirmed by a weekly scanning of SCI input to a system for selective dissemination of information (SDI) (*21*). In this SDI system, a newly published article can be retrieved on the basis of journals cited in the article's bibliography or footnotes. This retrieval criterion is known in an SDI profile as a "cited-journal question." A retrieval profile consisting of only 25 different cited-journal questions will retrieve 50 percent of all articles processed for the SCI every week. In other words, half of all articles published cite at least one of the 25 most frequently cited journals at least once.

It is also interesting that a small group of journals is found to be predominant when the literature is analyzed in other ways. Figure 6, for ex-

SOURCE JOURNAL / REFERENCE JOURNAL	TOTAL	NUMBER OF TIMES CITED 1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	REST
J LIBR AUT ==========>	168*	15	50	35	19	8	14	5	6	3	1	12
PROGRAM	15	3	6	5	1	0	0	0	0	0	0	0
J LIBRARY AUTOMATION	7	3	4	0	0	0	0	0	0	0	0	0
ALL OTHER (120)	146	9	40	30	18	8	14	5	6	3	1	12
J LIPID RES ==========>	313*	15	36	35	26	25	29	20	10	15	15	87
J BIOL CHEM	43	2	6	3	6	1	3	1	0	1	1	19
J LIPID RES	28	5	5	4	2	4	1	2	0	3	1	1
BIOCHIM BIOPHYS ACTA	19	1	3	1	3	2	3	1	0	2	2	1
BIOCHEM J	13	1	1	3	0	0	0	1	2	1	1	3
J AMER CHEM SOC	12	0	0	0	0	0	0	0	0	1	0	11
BIOCHEMISTRY	9	0	3	0	2	1	2	1	0	0	0	0
J CHEM SOC LONDON	5	0	0	1	0	0	0	0	0	1	0	3
J CHROMATOGR	5	0	1	1	1	0	1	0	1	0	0	0
METHODS ENZYMOL	5	0	0	0	0	0	0	0	1	0	0	4
ALL OTHER (89)	124	5	12	19	10	8	16	10	2	5	6	31
J LOND MATH ==========>	743*	21	44	58	52	42	34	31	38	29	33	361
J LOND MATH	52	6	12	5	5	4	3	0	2	1	3	11
P LONDON MATH SOC	37	4	5	7	1	2	2	0	1	1	0	14

Fig. 3. Statistics on citing journals. The data on each citing journal ("source journal") show the total number of references each journal contained in the last quarter of 1969 and the distribution of that total by publication date of journal issues referred to. For each citing journal, the figure identifies all journals ("reference journal") cited five times or more during the quarter year (and gives the distribution by publication data of cited issue). Journals cited less than five times are grouped as "all other." The data are taken from a list of journals processed for the SCI during the last quarter of 1969.

Item No. (1)	Cited Journal (2)	Times Cited Last Quarter 1969 (3)	1969 Citations to 1967 and 1968 Articles (4)	Articles Published in 1967 and 1968 (5)	Impact Factor (6)	Item No. (1)	Cited Journal (2)	Times Cited Last Quarter 1969 (3)	1969 Citations to 1967 and 1968 Articles (4)	Articles Published in 1967 and 1968 (5)	Impact Factor (6)
1	J AM CHEM SOC	26323	22156	3946	5 614	77	AM J OBSTET GYNECOL	1657	1440	1193	1.207
2	PHYS REV	20674	20740	5767	3 596	78	PLANT PHYSIOL	1646	1808	1149	1.573
3	J BIOL CHEM	17112	10768	1777	6.059	79	IND ENG CHEM	1644	928	856	1.084
4	NATURE LONDON	15325	15956	6811	2.342	80	ANN SURG	1641	1036	642	1.613
5	J CHEM SOC	14028	17764	5827	3.048	81	B CHEM SOC JAP	1639	2004	1567	1.278
6	J CHEM PHYS	13690	11696	3738	3.128	82	EUR J BIOCHEM	1635	1992	501	3.976
7	SCIENCE	9752	11880	3968	2.993	83	GENETICS	1618	1340	738	1 815
8	BIOCHIM BIOPHYS ACTA	9550	10956	3531	3.102	84	BLOOD	1614	1256	566	2.219
9	P NAT ACAD SCI USA	8260	11548	1348	8 566	85	P IEEE	1610	1856	756	2 455
10	BIOCHEM J	7638	6348	2074	3.060	86	J OPT SOC AM	1587	1196	1322	0.904
11	LANCET	7617	8164	5496	1 485	87	ANALYT BIOCHEM	1519	1672	502	3.330
12	PHYS REV LETT	6581	11380	2317	4.911	88	J GEN PHYSIOL	1507	1208	407	2.968
13	CR ACAD SCI	5789	6576	8345	0.788	89	ARCH INTERN MED	1501	860	486	1.769
14	AM J PHYSIOL	5420	3156	1013	3.115	90	AM HEART J	1453	1036	539	1.922
15	J ORG CHEM	5401	5756	2475	2 325	91	J EXP PSYCHOL	1449	1152	644	1 788
16	J APPL PHYS	5190	5072	2880	1.761	92	J GEN MICROBIOL	1445	1136	534	2.127
17	P SOC EXP BIOL MED	5079	3468	1920	1.806	93	J COMP PHYSIOL PSYCH	1444	888	476	1.865
18	J MOL BIOL	4982	7340	833	8 811	94	J PHYS CHEM SOLIDS	1430	1572	801	1.962
19	J PHYSIOL LOND	4966	3036	1248	2.432	95	CANCER	1416	1224	593	2.064
20	P ROY SOC LOND	4864	1916	621	3 085	96	AM J PATHOL	1401	960	529	1.814
21	J CELL BIOL	4813	4596	1357	3.386	97	RUSS J PHYS CHEM	1400	1116	1545	0.722
22	J CLIN INVEST	4785	3652	1086	3 362	98	METHODS ENZYMOL	1391	1456	482	3.020
23	J PHYS CHEM	4703	4516	1939	2.329	99	J INORG NUCL CHEM	1391	1356	908	1.493
24	CHEM BER	4541	2128	1037	2 052	100	PEDIATRICS	1382	1060	709	1.495
25	NEW ENGL J MED	4512	5252	2226	2 359	101	SURG GYNECOL OBSTET	1374	868	535	1.622
26	J AM MED ASS	4492	3980	3787	1 050	102	ANAT REC	1365	752	1836	0.409
27	BRIT MED J	4304	4224	6238	0.677	103	REV MOD PHYS	1364	816	189	4.317
28	SOV PHYS JETP	4295	3400	754	4.509	104	T MET SOC AIME	1359	1196	901	1.327
29	ASTROPHYS J	4271	5440	1167	4.661	105	CAN J PHYS	1352	2156	1019	2.115
30	ANALYT CHEM	4259	2424	1510	1 605	106	BRIT J PHARMACOL	1348	1348	507	2.658
31	J BACTERIOL	4147	4712	1410	3 341	107	APPL PHYS LETT	1337	2556	721	3.545
32	BIOCHEMISTRY	4076	6344	1114	5.694	108	PHYS STAT SOLIDI	1329	2192	1485	1.476
33	NUCL PHYS	4034	6716	2345	2.863	109	J ELECTROCHEM SOC	1308	1208	1538	0.785
34	PHYS LETT	3943	7160	3034	2.359	110	ACTA METALLURG	1304	964	452	2.132
35	TETRAHEDRON LETT	3937	8252	2902	2 843	111	PHYS FLUIDS	1304	1548	1050	1.474
36	J EXP MED	3871	2700	325	8.307	112	EXPERIENTIA	1297	1592	1565	1.017
37	ANN NY ACAD SCI	3787	2344	1216	1 927	113	GASTROENTEROLOGY	1286	1428	1244	1.147
38	ARCH BIOCHEM BIOPHYS	3689	3776	1169	3 230	114	Z ZELLF MIKR ANAT	1286	1800	653	2.756
39	J GEOPHYS RES	3537	5312	1569	3.385	115	SURGERY	1274	996	790	1.260
40	J POLYM SCI	3458	2888	2069	1.395	116	REV SCI INSTR	1273	968	1148	0.843
41	BIOCHEM BIOPHYS RES	3417	5108	1190	4.292	117	AM J ROENTGENOL	1272	1044	860	1.213
42	FED P	3372	4036	7374	0 547	118	AIAA J	1269	1456	1231	1.182
43	J PHYS	3308	3256	2379	1 368	119	T ASME	1246	800	1332	0.600
44	T FARADAY SOC	2922	1808	879	2.056	120	AM J CARDIOL	1238	1600	737	2.170
45	ACTA CRYSTALLOGR	2917	2164	1803	1.200	121	J HISTOCHEM CYTOCHEM	1229	828	362	2.287
46	DOKL AKAD NAUK SSSR	2869	2456	5385	0.456	122	J PEDIAT	1229	1076	783	1.374
47	J PHARMACOL EXP THER	2781	2020	566	3.568	123	J ACOUST SOC AM	1219	1016	2196	0.462
48	ANGEW CHEM	2728	3660	1251	2.925	124	NATURWISSENSCHAFTEN	1218	944	1091	0.865
49	J IMMUNOL	2627	2992	726	4.121	125	J NUTR	1209	952	489	1.946
50	INORG CHEM	2620	3976	1247	3.188	126	SPECTROCHIM ACTA	1201	1248	679	1.837
51	SOV PHYS SOLID STATE	2620	2984	1561	1.911	127	Z ANORG ALLG CHEM	1188	580	549	1.056
52	CIRCULATION	2601	2624	2160	1.214	128	J PERSON SOC PSYCHOL	1186	676	581	1.163
53	ENDOCRINOLOGY	2548	2276	783	2.906	129	RADIOLOGY	1175	1244	835	1.489
54	ACTA CHEM SCAND	2444	1984	943	2.103	130	AM J BOT	1171	644	726	0.887
55	NUOVO CIMENTO	2431	3436	1938	1.772	131	Z PHYS CHEM LEIPZIG	1170	332	252	1.317
56	B SOC CHIM FRANCE	2416	2664	2704	0.985	132	J CHROMATOGR	1161	1708	1343	1.271
57	VIROLOGY	2376	2620	584	4.486	133	HOPPE SEYLERS Z	1145	1412	863	1.636
58	CANCER RES	2349	2344	814	2.879	134	J UROL	1142	656	712	0.921
59	CAN J CHEM	2280	2392	1182	2.023	135	ARCH PATHOL	1138	556	409	1.359
60	HELV CHIM ACTA	2249	1524	539	2.827	136	ARCH SURG	1134	748	867	0.862
61	Z NATURFORSCHUNG	2200	2172	1650	1.316	137	AM J DIS CHILD	1127	748	610	1.226
62	AM J MED	2191	1784	395	4.516	138	ACTA MED SCAND	1112	680	472	1.440
63	J LAB CLIN MED	2120	1284	754	1.702	139	ANN PHYSICS	1105	692	224	3.089
64	TETRAHEDRON	2071	3220	1313	2.452	140	COLD SPR HARB SYMP	1091	1060	194	5.463
65	EXP CELL RES	1958	1464	653	2.241	141	J ORGANOMET CHEM	1089	2784	796	3.497
66	LIEBIGS ANN CHEM	1952	768	492	1.560	142	PFLUGERS ARCH	1083	896	732	1.224
67	ANN INT MED	1946	1844	1098	1 679	143	OPT SPECTROSC USSR	1076	1100	814	1.351
68	PHIL MAG	1943	1180	547	2.157	144	KLIN WSCHR	1057	800	1198	0.667
69	J CLIN ENDOCR METAB	1903	1888	488	3.868	145	CHEM IND LOND	1049	648	1703	0.380
70	J APPL PHYSIOL	1836	1460	643	2.270	146	BER BUNSEN PHYS CHEM	1044	688	771	0.892
71	ACTA PHYSIOL SCAND	1816	1024	413	2.479	147	BIOCHEM PHARMACOL	1030	1292	684	1.888
72	J PHYS SOC JAP	1786	1768	2074	0.852	148	PHYSIOL REV	1022	572	33	17.333
73	Z PHYS	1764	1228	844	1.454	149	J BONE JOINT SURG	1021	500	745	0.671
74	CIRC RES	1750	1820	432	4.212	150	J NEUROPHYSIOL	1015	692	156	4.435
75	PHYTOPATHOLOGY	1713	1632	1597	1.021	151	CR SOC BIOL	1010	596	1316	0.452
76	J NAT CANCER I	1668	1672	417	4.009	152	REC TRAV CHIM	1010	728	337	2.160

Fig. 4. The 152 most frequently cited journals ranked by frequency of citation in journals covered by the SCI. Column 1 gives rank, and column 2 gives abbreviations of the titles of cited journals. Column 3 shows the total number of times each journal was cited during the last quarter of 1969. Column 4 gives an estimate of the total number of citations in 1969 of items published in 1967 and 1968 (the estimate was made by quadrupling the 1969 citations of 1967 and 1968 items in the 3-month sample). Column 5 shows the total number of items processed from each journal by the SCI during 1967 and 1968. Column 6 indicates the impact factor (average citations per published item) derived by dividing the numbers in column 4 by those in column 5.

ample, plots numbers of articles published against numbers of journals. It shows that, of the 2200 journals covered by the SCI in 1969, about 500 published about 70 percent of all articles published. As shown in Fig. 7, a small group of 250 journals provided almost half of the 3.85 million references processed for the SCI in 1969. The predominance of cores of journals is ubiquitous. An analysis of what journals first published reports of newly synthesized compounds indexed for *Current Abstracts of Chemistry and Index Chemicus* gives a similar result: of the 183 journals indexed by this publication in 1969, 11 percent of the journals accounted for 60 percent of the new compounds, 22 percent of the journals for 79 percent of the compounds, 32 percent of the journals for 89 percent of the compounds, and so on (*22*). *Chemical Abstracts* presents an even more striking example of this predominance: about 8 percent of the journals it covers publish more than 75 percent of the items it abstracts (*23*).

The data reported here demonstrate the predominance of a small group of journals in the citation network. Indeed, the evidence seems so conclusive that I can with confidence generalize Bradford's bibliographical law concerning the concentration and dispersion of the literature of individual disciplines and specialties (*2*). Going beyond Bradford's studies, I can say that a combination of the literature of individual disciplines and specialties produces a multidisciplinary core for all of science comprising no more than 1000 journals. The essential multidisciplinary core could, indeed, be made up of as few as 500 journals if, for example, one is attempting to satisfy the needs of libraries in developing countries.

Other Considerations

Citation frequency reflects a journal's value and the use made of it, but there are undoubtedly highly useful journals that are not cited frequently. Scientists read some journals for the same reason people read newspapers—to keep up with what's going on generally—and they may rarely or never cite such journals in their published work (*24*). A popular review journal such as *Scientific American* or a news-oriented journal such as *New Scientist* may rank relatively low on a times-cited list (in

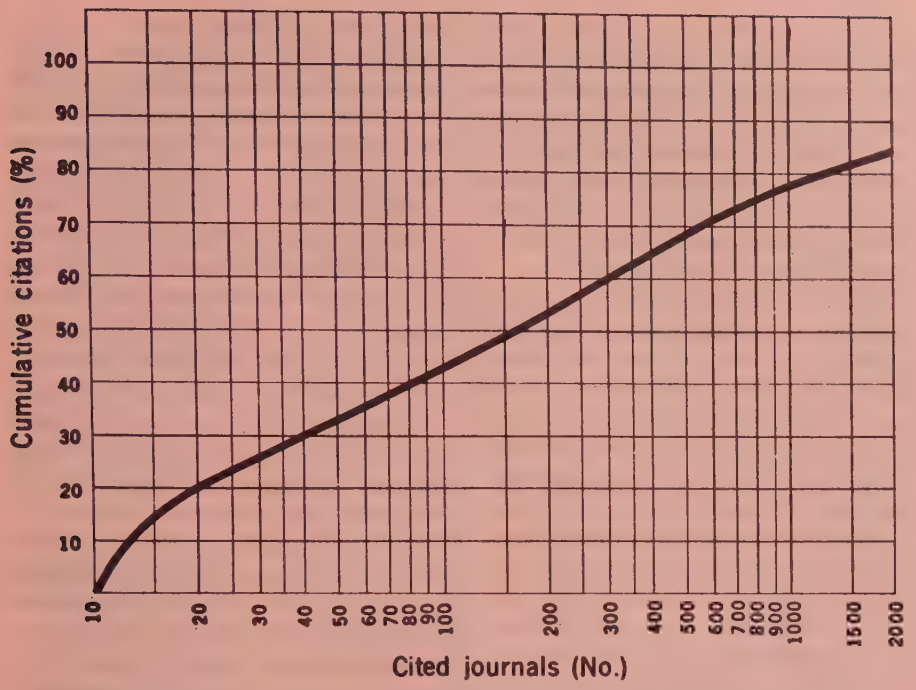

Fig. 5. Distribution of citations among cited journals. The curve shows that a relatively small core of 152 journals accounts for about half of all citations and that only 2000 or so journals account for about 84 percent of all citations.

fact, *Scientific American* is 449th, while *New Scientist* ranks well below 1000), but that does not mean that they are therefore less important or less widely used than journals that are cited more frequently. It merely means that they are written and read primarily for some purpose other than the communication of original research findings.

Citation frequency is, of course, a function of many variables besides scientific merit. Some of them are known or can reasonably be assumed: an author's reputation, controversiality of subject matter, circulation, availability and extent of library holdings, reprint dissemination, coverage by secondary services, priority in allocation of research funds, and others. It is extremely difficult, even when possible, to clarify the relations among such variables and their relative impact on citation frequency. One such variable is, however, fairly obvious. If every article has an equal likelihood of being cited, it should follow that the more articles a journal publishes, the more frequently the journal will be cited. For the most part, the data show that such is indeed the case. Although many articles are never cited (*25, 26*), I have very rarely found among the 1000 most frequently cited journals one that is not also among the 1000 journals that are most productive in terms of articles published. Citation frequency of a journal is thus a function not only of the scientific significance of the material it publishes (as reflected by citation), but also of the amount of material it publishes.

In view of the relation between size and citation frequency, it would seem desirable to discount the effect of size when using citation data to assess a journal's importance. We have attempted to do this by calculating a relative impact factor—that is, by dividing the number of times a journal has been cited by the number of articles it has published during some specific period of time. The journal impact factor will thus reflect an average citation rate per published article (*27*). However, the development of impact factors that fairly relate the size of a journal during the cited years to its current citation rate is a formidable challenge to statistical analysis. With the SCI data base, it is easy to determine how frequently a journal has been cited within a given period of time, but it is much more difficult to agree on a total-items-published base to which such citation counts can properly be related because the items may have been published at any point in the journal's history. In selecting an items-published base (*28*) for each journal, I have been guided by the chronological distribution of cited items in each annual edition of the SCI (*19*, p. 15; *29*). An analysis of this distribution has shown that the typical cited article is most heavily cited during the 2 years after its year of publication. (In any given year, 21 to 25 percent of all references cite articles that are 3 or fewer years old.) Therefore, since my sample consists of references made in 1969, I have taken as the items-published base for each journal the number of items it published during 1967 and 1968. To calculate an impact factor for each journal, I di-

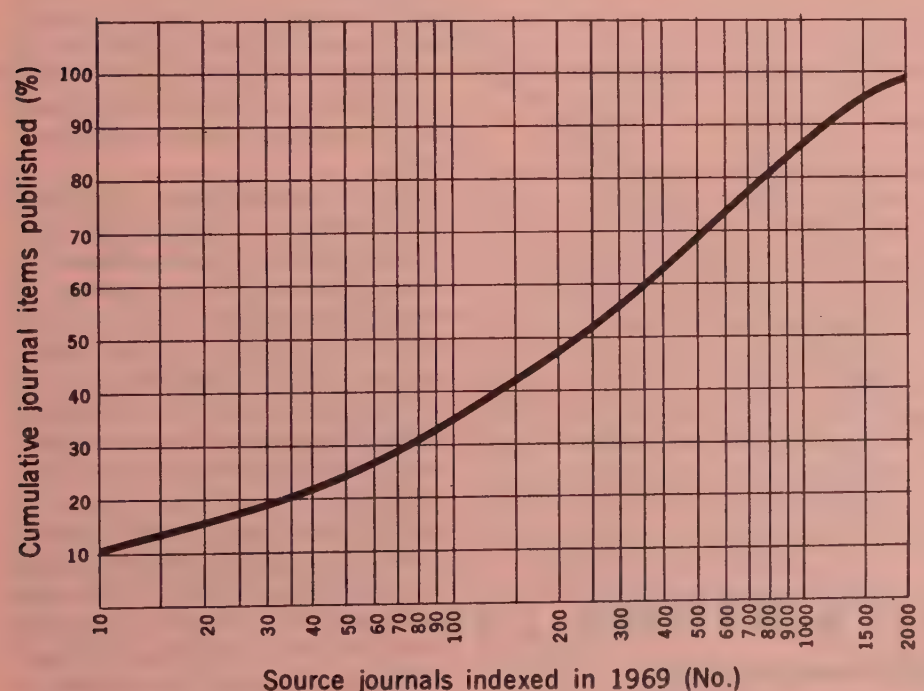

Fig. 6. Distribution of the number of published items among the approximately 2200 journals covered by the SCI in 1969. The curve shows that a relatively small core of journals carried the majority of items published.

vided the number of times 1967 and 1968 articles were cited in 1969 by the number of articles published in 1967 and 1968. Martyn and Gilchrist used a similar method in ranking British journals in an analysis of 1965 SCI data (*30*).

Figure 8 shows the top 152 of the 565 most frequently cited journals ranked by impact factor. Many of the 152 journals do not appear on this high-impact list; in fact, only 75 journals are common to both lists. It will be interesting to observe further changes in the ranking of the most frequently cited journals as calculations of impact factor are extended to 1000 journals and eventually to the approximately 2400 journals now covered by the SCI.

Some Applications

The results of this type of citation analysis would appear to be of great potential value in the management of library journal collections. Measures of citation frequency and impact factor should be helpful in determining the optimum makeup of both special and general collections. Analysis of the chronological distribution of items cited can serve as a guide in determining the optimum size of back files, and, since the data give a detailed view of each journal's citation history, binding and retention schedules can be rationally established journal by journal, rather than for groups of journals (*31*). Another application, which harried librarians may welcome, is the correlation of data on citation frequency and impact with subscription costs. Such a correlation can provide a solid basis for cost-benefit analysis in the management of subscription budgets.

Individual scientists also face the problem of selecting journals to read and keep, as well as compiling reference and reading lists for themselves and their students. Although each of the relatively few journals that are very useful in a given discipline or specialty may be well known, it can be difficult to gauge the merits of the other journals in that discipline or specialty and to decide what journals to get and how long to keep them. It should be noted, in this connection, that analyses of citation frequency and impact factor can be tailored to the specific interests and requirements of individuals by restricting the number of citing journals to a small group of familiar titles. Thus, with a list of the ten or so most frequently cited chemical journals (or merely ten journals favored by a particular chemist), one can, by constructing lists of citation frequency and impact factor, gradually augment the small group and the citation data base with journals of demonstrable relevance. I am using this technique to establish a list of journals for the projected *Social Sciences Citation Index.*

Editors and editorial boards of scientific and technical journals may also find citation analysis helpful. As it is, those who formulate editorial policies have few objective and timely measures of their success. A wrong policy, or a policy wrongly implemented, may have serious effects on revenue and prestige, and the work of regaining readers and reputation can be difficult and expensive. Editors can find useful indicators of a journal's performance in the extent of self-citation, the number of times cited per year, and the distribution of citations among citing journals within and outside the specialty literature.

Perhaps the most important application of citation analysis is in studies of science policy and research evaluation. Price has shown how citation data can be used to identify research fronts (*25*). Soviet information scientists are using citation data to evaluate the implementation of science policy in the U.S.S.R. (*12, 14, 32*), and the sociological studies of Hagstrom and others (*33*) give convincing evidence of the utility of this approach.

Unanswered Questions

The data reported here suggest many avenues for further study. What, for example, is the significance of an abnormally high self-citation rate? Is it characteristic of parochialism, eccentricity, mediocrity? Does it indicate that a particular field of study has as yet no basis for interaction with other fields? Which is true in a particular case and how does one go about finding out?

What is the significance of a wide, multidisciplinary spread of titles cited in the references of a given journal or group of journals? Is it a measure of multidisciplinary activity? If so, is it a valid enough measure to warrant applying the Weinberg criterion (*34*) of multidisciplinary impact in order to determine the amount of government support merited by particular areas of research? Does the fact that *Ecology*, for example, cites more than 500 different journals in a total of 1000 references make it more multidisciplinary than the *Journal of the American Chemical Society*, which cites only twice as many journals in ten times the number of references, or than *Physical Review*, which cites only 600 or so journals in 15,000 references? Does the nonlinear-

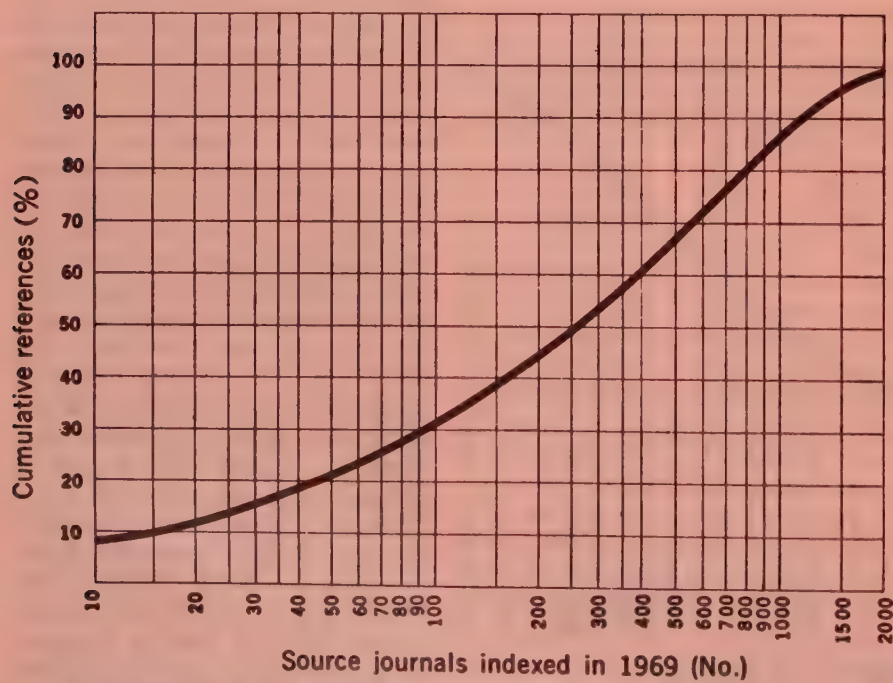

Fig. 7. Distribution of references among journals covered by the SCI in 1969. The curve shows that fewer than 300 journals provided more than half of the references processed.

Item No. (1)	Cited Journal (2)	1969 Times Cited Last Quarter 1969 (3)	1969 Citations to 1967 and 1968 Articles (4)	Articles Published in 1967 and 1968 (5)	Impact Factor (6)
1	ADV PROTEIN CHEM	373	184	8	23.000
2	PHARMACOL REV	725	448	20	22.400
3	BACTERIOL REV	646	804	39	20.615
4	ANNU REV BIOCHEM	468	932	53	17.584
5	PHYSIOL REV	1022	572	33	17.333
6	ACCOUNTS CHEM RES	247	820	48	17.083*
7	SOLID STATE PHYS	384	228	14	16.285
8	ADV ENZYMOL	291	192	20	9.600
9	INT REV CYTOL	230	144	16	9.000
10	J MOL BIOL	4982	7340	833	8.811
11	REC PROG HORMONE RES	417	232	27	8.592
12	P NAT ACAD SCI USA	8260	11548	1348	8.566
13	J EXP MED	3871	2700	325	8.307
14	Q REV	488	452	55	8.218
15	CHEM REV	1003	408	50	8.160
16	ANNU REV PL PHYSIOL	314	296	42	7.047
17	J CRYST GROWTH	232	820	125	6.560
18	ANNU REV MICROBIOL	254	288	44	6.545
19	J BIOL CHEM	17112	10768	1777	6.059
20	METHODS BIOCHEM ANAL	285	80	14	5.714
21	BIOCHEMISTRY	4076	6344	1114	5.694
22	J AM CHEM SOC	26323	22156	3946	5.614
23	SOV PHYS USP	586	612	109	5.614
24	COLD SPR HARB SYMP	1091	1060	194	5.463
25	BIOL REV	358	176	34	5.176
26	J VIROL	560	1860	360	5.166
27	MEDICINE	410	240	48	5.000
28	J CELL SCI	552	600	122	4.918
29	PHYS REV LETT	6581	11380	2317	4.911
30	ASTROPHYS J	4271	5440	1167	4.661
31	AM J MED	2191	1784	395	4.516
32	SOV PHYS JETP	4295	3400	754	4.509
33	VIROLOGY	2376	2620	584	4.486
34	J NEUROPHYSIOL	1015	692	156	4.435
35	PSYCHOL REV	593	368	83	4.433
36	REV MOD PHYS	1364	816	189	4.317
37	BIOCHEM BIOPHYS RES	3417	5108	1190	4.292
38	MON NOT ROY ASTR SOC	868	1008	238	4.235
39	CIRC RES	1750	1820	432	4.212
40	J IMMUNOL	2627	2992	726	4.121
41	Q J MED	437	284	70	4.057
42	J NAT CANCER I	1668	1672	417	4.009
43	EUR J BIOCHEM	1635	1992	501	3.976
44	MOL PHARMACOL	300	564	144	3.916
45	DEVELOP BIOL	435	552	142	3.887
46	J CLIN ENDOCR METAB	1903	1888	488	3.868
47	CHEM ENG LONDON	268	392	104	3.769
48	J LIPID RES	929	876	235	3.727
49	ADV PHYS	318	284	77	3.688
50	PSYCHOL B	610	564	154	3.662
51	IMMUNOLOGY	801	1208	335	3.605
52	PHYS REV	20674	20740	5767	3.596
53	J PHARMACOL EXP THER	2781	2020	566	3.568
54	APPL PHYS LETT	1337	2556	721	3.545
55	J ORGANOMET CHEM	1089	2784	796	3.497
56	J CELL PHYSIOL	860	628	180	3.488
57	BRAIN RES	420	1140	327	3.486
58	BRIT MED B	426	432	127	3.401
59	J CELL BIOL	4813	4596	1357	3.386
60	J GEOPHYS RES	3537	5312	1569	3.385
61	J CLIN INVEST	4785	3652	1086	3.362
62	J BACTERIOL	4147	4712	1410	3.341
63	ANALYT BIOCHEM	1519	1672	502	3.330
64	IMMUNOCHEMISTRY	271	404	125	3.232
65	ARCH BIOCHEM BIOPHYS	3689	3776	1169	3.230
66	INORG CHEM	2620	3976	1247	3.188
67	J CHEM PHYS	13690	11696	3738	3.128
68	J ULTRASTRUCT RES	979	1392	445	3.128
69	AM J PHYSIOL	5420	3156	1013	3.115
70	TRANSPLANTATION	513	1000	321	3.115
71	BIOCHIM BIOPHYS ACTA	9550	10956	3531	3.102
72	ANN PHYSICS	1105	692	224	3.089
73	P ROY SOC LOND	4864	1916	621	3.085
74	BIOCHEM J	7638	6348	2074	3.060
75	J CHEM SOC	14028	17764	5827	3.048
76	METHODS ENZYMOL	1391	1456	482	3.020
77	SCIENCE	9752	11880	3968	2.993
78	GENET RES	371	464	155	2.993
79	J GEN PHYSIOL	1507	1208	407	2.968
80	ANGEW CHEM	2728	3660	1251	2.925
81	ENDOCRINOLOGY	2548	2276	783	2.906
82	CANCER RES	2349	2344	814	2.879
83	EXP PARASITOL	437	492	171	2.877
84	NUCL PHYS	4034	6716	2345	2.863
85	TETRAHEDRON LETT	3937	8252	2902	2.843
86	PLANTA	707	1172	414	2.830
87	HELV CHIM ACTA	2249	1524	539	2.827
88	J COMP NEUROL	969	376	133	2.827
89	BIOPOLYMERS	452	656	235	2.791
90	CHROMOSOMA	458	440	159	2.767
91	Z ZELLF MIKR ANAT	1286	1800	653	2.756
92	CLIN SCI	680	552	205	2.692
93	BRIT J PHARMACOL	1348	1348	507	2.658
94	SURFACE SCI	399	844	321	2.629
95	AM J HUM GENET	405	332	128	2.593
96	PLANET SPACE SCI	508	892	348	2.563
97	DISCUSS FARADAY SOC	702	292	114	2.561
98	J NEUROCHEM	801	900	357	2.521
99	SOV J NUCL PHYS	742	1588	630	2.520
100	MUTAT RES	274	532	213	2.497
101	J CATAL	431	764	308	2.480
102	ACTA PHYSIOL SCAND	1816	1024	413	2.479
103	CHEM PHYS LETT	294	996	402	2.477
104	GEOCHIM COSMOCH ACTA	814	744	301	2.471
105	P IEEE	1610	1856	756	2.455
106	STEROIDS	473	680	277	2.454
107	TETRAHEDRON	2071	3220	1313	2.452
108	J PHYSIOL LOND	4966	3036	1248	2.432
109	INT J CANCER	275	452	189	2.391
110	PSYCHOPHARMACOLOGIA	277	388	163	2.380
111	NEW ENGL J MED	4512	5252	2226	2.359
112	PHYS LETT	3943	7160	3034	2.359
113	EARTH PLANET SC LETT	269	672	286	2.349
114	NATURE LONDON	15325	15956	6811	2.342
115	J PHYS CHEM	4703	4516	1939	2.329
116	J ORG CHEM	5401	5756	2475	2.325
117	J EXP ANALYSIS BEHAV	509	424	184	2.304
118	J HISTOCHEM CYTOCHEM	1229	828	362	2.287
119	J APPL PHYSIOL	1836	1460	643	2.270
120	AM J ANAT	637	256	113	2.265
121	EXP CELL RES	1958	1464	653	2.241
122	BLOOD	1614	1256	566	2.219
123	J FLUID MECH	998	1036	472	2.194
124	HISTOCHEMIE	323	668	305	2.190
125	AM J CARDIOL	1238	1600	737	2.170
126	REC TRAV CHIM	1010	728	337	2.160
127	PHIL MAG	1943	1180	547	2.157
128	J BIOCHEM	966	1064	498	2.136
129	ACTA METALLURG	1304	964	452	2.132
130	J GEN MICROBIOL	1445	1136	534	2.127
131	CAN J PHYS	1352	2156	1019	2.115
132	ANN MATH	702	184	87	2.114
133	ACTA CHEM SCAND	2444	1984	943	2.103
134	BRIT J HAEMATOL	581	608	290	2.096
135	METABOLISM	550	564	270	2.088
136	RADIO SCI	385	760	365	2.082
137	CANCER	1416	1224	593	2.064
138	PHOTOCHEM PHOTOBIOL	343	472	229	2.061
139	AM J SCI	602	284	138	2.057
140	T FARADAY SOC	2922	1808	879	2.056
141	CHEM BER	4541	2128	1037	2.052
142	MOL PHYS	698	652	319	2.043
143	CAN J CHEM	2280	2392	1182	2.023
144	J EXP BOT	352	336	167	2.011
145	B SEISMOL SOC AM	344	416	208	2.000
146	J SEDIMENT PETROLOGY	423	480	240	2.000
147	ARCH MIKROBIOL	438	600	305	1.967
148	DIABETES	785	936	477	1.962
149	J PHYS CHEM SOLIDS	1430	1572	801	1.962
150	INORG NUCL CHEM LETT	247	620	316	1.962
151	J ENDOCRINOL	983	1104	566	1.950
152	PROTOPLASMA	301	380	195	1.948

Fig. 8. The 152 most frequently cited journals ranked by impact factor (average number of citations per item published). The column headings are explained in the legend of Fig. 4.

* There was an error in the numbers given in cols. 5 and 6 of this figure for *Accounts Chem Res* when this article was originally published in *Science*. The error has been corrected in this reprint.

ity of publication and citation distributions among citing and cited journals confirm beyond doubt only that relatively few journals are primary nodes in the communications network, or does it have some other significance?

And what is the significance of a wide disparity between the number of journals cited by a given journal and the number that cite it? *Ecology* cites 500 or so journals but, in turn, is cited by only 115. What does this say, other than the obvious, about ecology and *Ecology*? Is the applicability of work done in ecology and being reported in *Ecology* much narrower than the interests of ecologists?

Several investigators of problems in science policy and science management are already using the SCI data base to explore such questions and many others. Each is trying, for different reasons, to build a model of the journal communication network that will provide more functional definitions of disciplines and specialties, that will make it possible to define in detail how different fields of knowledge interact, that will provide methods of predicting interdisciplinary impact, and that will perhaps provide more effective ways of monitoring research performance. Using the SCI data base to map the journal communications network may contribute to more efficient science.

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17. The largest number of variants of the same journal title and its abbreviations was 42, the total reached in the case of *Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences.*
18. For example, the *South African Journal of Obstetrics and Gynaecology,* the *South African Journal of Nutrition,* the *South African Journal of Radiology,* and others are composed of specially titled (and color-coded) issues from the regularly numbered series of the *South African Medical Journal.*
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28. The problem of selecting an items-published base is further complicated by the variety in the kinds of items published in scientific journals. Many journals publish only full-length reports of original research. Many others publish, in addition, editorials, technical communications, letters, notes, general correspondence, scientific news surveys and notes, book reviews, and so on; all of these are potentially citable items. I have not attempted in this article to limit the definition of items-published to lead articles, original communications, or the like. Even assuming it were possible to construct an acceptable classification that would accommodate all of the different kinds of published material, it would have been impossible for me, within the resources available for this article, to have examined individually each of the approximately 600,000 items that I use for the items-published base. If such a differentiation among kinds of material were included in an analysis such as this one, it is reasonable to assume that lead articles in such journals as *Science, Nature, Lancet,* and *Journal of the American Medical Association* would, as a group, have higher impact factors than those that are shown for these journals in Fig. 8.
29. The percentage (in terms of total citations) of citations of items that are 3 or fewer years old has been, for the years 1964 to 1970, 31.09, 30.24, 26.60, 25.91, 25.32, 25.18, and 23.95, respectively. It is interesting to note that the yearly percentage of such items has gradually decreased as SCI coverage has increased, while the citation rate per cited item has gradually increased (*19*). The significance of these trends is an interesting matter for future investigation.
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Citations in chemistry

By

A.E. Cawkell

Institute for Scientific Information

The *Science Citation Index* is a valuable tool for scientific literature searching. Its unique feature is that searches starting from a paper of interest lead forward to more recent papers on the subject as well as back.

Citations (references) are traditionally included in a scientific article to acknowledge earlier publications on which the work is based. The reader is able to increase his knowledge of concepts, methods, apparatus and so on, by referring to these cited works. The set of subjects embodied in the cited items are related to the set of subjects discussed in the article, and it is this interconnection that provides the basis for the *Science Citation Index*® system (*SCI*) for tracing wanted publications.[1,2]

The Index is published quarterly with annual cumulations, and consists of the *Source Index* section, which gives descriptions of current articles listed alphabetically by first author; the *Permuterm Subject Index* section, an alphabetical list of all possible word-pairs from the titles of current articles; and the *Citation Index* section, which is a chronological list of cited works. Each cited work in the *Citation Index* is followed by a brief description of those *Source Index* articles which cite it. Thus, the system may be entered in three basic ways—by 'source author' (what has he published this year?), by words (what articles have been published this year with these words in the title?) or by 'cited work' (what current articles cite this known earlier work?).

At first sight, it is not obvious that the *Citation Index* section (*Fig.* 1) is a subject index. However, a bibliographic reference can be regarded as a symbolic representation of a subject which may be simple or complex. For example, to a chemist familiar with the subject area, the symbols 'NOVAK J. R., WINDSOR M. W., J. CHEM. PHYS. vol. 47 page 3075, 1967', unambiguously circumscribe nuances of the subject 'Spectra studies of hydrocarbon singlet molecules by ruby laser excitation, and decay observation with an image converter tube'. To locate current articles about aspects of this subject, a user enters a current edition of the *Citation Index* (say, the 1969 edition) at the above symbols, and will be led forward to those articles, ordered beneath the Novak reference, which cited it during 1969. A full description of each current citing article is provided in the *Source Index* (*Fig. 1*).

Thus, the *Citation Index* embodies a form of subject classification in which early and current works about similar subjects are grouped together according to the association of ideas. Well over 90 per cent of the world's important journals of science and technology are covered, and cited and citing articles are grouped together quite regardless of the disciplinary orientation of their sources, so there is no loss of information caused by conventional arbitrary subject classification. In the Novak example, there are obviously chemical, electronic, and optical aspects and we would expect to find information in a wide range of journals.

One look-up of this kind may be all that is required to satisfy the needs of a user. (A recent report about the habits of library users showed that the average need for information is met by about three documents.[3])

Cycling

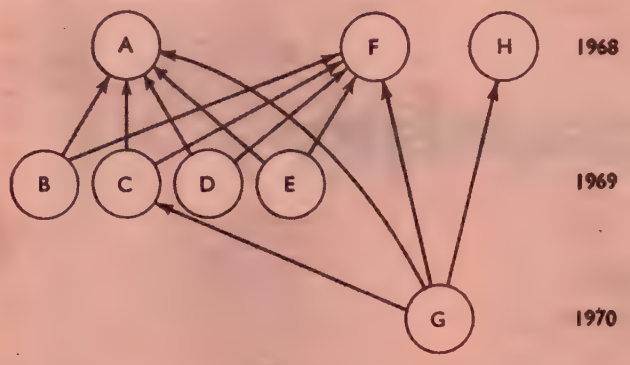
Obviously, a more thorough search is sometimes needed, for instance, to ascertain the state of the art before starting upon a scientific project. In this case, a process known as cycling can be used and search progress is recorded in a citation network. In the cycling process, articles located *via* the *Citation Index* are obtained and read, and references from them are used as new entry points in the Index. For example, a known article, published in 1960, is looked up in the 1969 *Citation Index*; let us assume that one 1969 article cites it. This article is found to contain a reference to an interesting 1965 report. The *Citation Index* is re-entered at this report

Fig. 1. Citations to the works of J. R. Novak in the 1969 Science Citation Index *and, below, the expanded description of one of the current citing articles as it appears in the 1969* Source Index.

NOVAK JR	UNPUBLISHED DATA.....			
KROPP JL	J PHYS CHEM	69	73	1747
.....64	J CHEM PHYS.....		37	3074
ANDERSON EM	J CHEM PHYS	69	51	182
.....67	J CHEM PHYS.....		47	3075
BRINKEN JS	J MOL SPECT	69	32	368
KLIGER DS	J CHEM PHYS L	69	50	4109
NOVAK JR	P ROY SOC A	68	308	95
PORTER G	ISR J CHEM	69	7	179
RENTZEPI. PM	PHOTOCHEM P M	68	8	579
SCHWAR MJR	COMB FLAME R	69	13	335
➔ THOMAS JK	J CHEM PHYS	69	51	770
VERDIECK JF	NUCL APPLIC	69	6	474
.....68	P ROY SOC.....		308	95
GOODALL DM	ANN RP CH A R	68	65	149
LIPSETT FR	MOLEC CRYST R	69	6	175
MCILRATH TJ	APPL PHYS L L	69	15	41

THOMAS JK
J CHEM PHYS 51 770 69 25R N2 E 415
FORMATION OF EXCITED SINGLET STATES IN NANOSECOND PULSE RADIOLYSIS AND NANOSECOND FLASH PHOTOLYSIS OF AROMATIC MOLECULES IN LIQUID AND SOLID SOLUTIONS.

Mr Cawkell is senior consultant of the European branch of the Institute for Scientific Information, 132 High St, Uxbridge, Middx. Originally trained as an electronics engineer, he has published articles in various fields including cathode-ray storage devices, information theory, non-destructive testing and data transmission. Before joining ISI, he was managing director of Cawkell Research and Electronics Ltd.



A R. Bonneau, J. Faure and J. Joussot-Dubien, 'Singlet–singlet adsorption and intersystem crossing from the B3u state of naphthalene', *Chem. Phys. Lett.*, 1968, **2**, 65.

B J. S. Brinen, M. K. Orloff *et al.*, 'Radiative and radiationless rate constants of aromatic hydrocarbons—chrysenes', *J. molec. Spectrosc.*, 1969, **32**, 368. (17 references)

C D. S. Kliger and A. C. Albrecht, 'Nanosecond excited-state polarized absorption spectroscopy of anthracene in the visible region', *J. chem. Phys.*, 1969, **50**, 4109. (Letter, 12 references)

D F. R. Lipsett, 'Energy transfer in polyacene solid solutions. 8. A bibliography for 1968', *Molec. Cryst.*, 1969, **6**, 175. (Review article, 79 references)

E L. M. Theard, F. C. Peterson and R. A. Holroyd, 'Nanosecond pulse radiolysis of liquid naphthalene and biphenyl', *J. chem. Phys.*, 1969, **51**, 4126. (30 references)

F J. R. Novak and M. W. Windsor, 'Laser photolysis and spectroscopy. A new technique for the study of rapid reactions in the nanosecond time range', *Proc. R. Soc.*, 1968, **308**, 95. (50 references)

G. L. Patterson and G. Porter, 'Lasers in photochemical kinetics', *Chem. Brit.*, 1970, **6**, 246. (29 references)

H R. I. Scarlet, J. F. Figueira and H. Mahr, 'Direct measurement of picosecond lifetimes', *Appl. Phys. Lett.*, 1968, **13**, 71. (Letter, 7 references)

Fig. 2. Citation connections between articles about an aspect of photochemistry.

to see if it has been cited. Three 1969 citing articles are located. Thus, the searcher has been led forward in time from his known 1960 article to a 1969 article, back to the 1965 report and then forward to the three 1969 articles. This process may be continued for as long as it is desired.

It is helpful to construct a citation network during such a search as will be seen from the following example. A chemist is interested in the study of absorption spectra transients in hydrocarbons initiated by nanosecond laser flashes. He knows about an article by Bonneau, circumscribing his interests, and chooses it for the starting point for a search. Four citing articles are located in the 1969 *Citation Index* (*Fig. 2*, B–E) and these are obtained and read. They each contain a reference to the article F on the diagram—the Novak article referred to in *Fig. 1*. Note that the degree of relevance of this article may be judged objectively—an important function if the search is being carried out by a non-subject expert. High relevance is indicated because of 'strength four bibliographic coupling'—each of four articles of known interest (B to E) cite it.

The chemist now decides to use the first quarterly edition of the 1970 *Citation Index*—the most recent he possesses—with the Novak article as an entry point. The citing article by Patterson and Porter is found. When this article is obtained and read, one of its references is to an article which describes an extension of the method into the picosecond region. The chemist now considers that sufficient information is available and terminates the search. His results are shown in *Fig. 2*. The *Permuterm Subject Index* can also be used to locate articles of interest. For example, in the 1968 *Permuterm Subject Index*, the word-pair 'pico-second, life-times' locates the article by Scarlett (H in *Fig. 2*) More complete information can, of course, be found under that author in the associated *Source Index*.

The search just described concerned a rather broad subject, but what if the chemist were interested in a particular method (for instance, ruby laser apparatus); in the spectra of particular compounds; or, specifically, in radiationless processes? In each case he would select a narrow search term, that is, an article which is primarily concerned with the aspect of interest. Citations to the selected article will probably be about that aspect.

An organic chemist might want to locate articles about the chemistry of the products of the reaction shown in *Fig. 3*. This reaction is symbolised by an article by Woods on 'acid catalysed addition reactions to enol ether double bonds, for example 1,2-dihydropyran with hydroxylic compounds'. Its 1969 *Citation Index* entry, and the *Source Index* expansion of one of the citing articles are shown in *Fig. 3*.

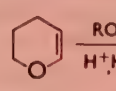
The impact of scientific work may often be assessed by citation characteristics. The Woods article, published 23 years ago, has been cited consistently ever since, showing that its impact endures.

Effectiveness

How effective for chemists is a multidisciplinary tool like the *Science Citation Index*, compared with a discipline-oriented tool such as *Chemical Abstracts* or *Current Abstracts of Chemistry* and *Index Chemicus*™? The important factors are input comprehensivity (coverage), and ease of access to what is covered. (Cost-effectiveness is also very important, but cannot be discussed here.) In the *SCI*, the prime journals of science and technology are indexed from cover to cover. In *CA*, a larger number of journals, broadly interpreted as chemical, are selectively abstracted. The number of items indexed in the *SCI* is larger than the number abstracted in *CA*. Both systems employ author and some form of subject

Fig. 3. Locating current articles about the chemistry of the end products of a reaction.

Reaction **Symbol**



G. F. Woods *et al.*, *J. Am. Chem. Soc.*, 1947, **69**, 2246.

Extract from *Citation Index*

WOODS GF.....64	J AM CHEM SOC.....	68	2484
BALDWIN MJ	CAN J CHEM	69	47	3099
"	"	69	47	3553
.....47	J AM CHEM SOC.....	69	2246
DEHOOG AJ	TETRAHEDRON	69	25	3365
KORVOLA J	SUOM KEMIST	69	42	46
KORVOLA J	SUOM KEMIST	69	42	282
➡STAMPA GB	MACROMOLEC	69	2	203
WARD JP	REC TR CHIM	69	88	1345
.....48	J AM CHEM SOC.....	70	2174
KAHOVEC J	CHEM IND L N	69		919

Extract from *Source Index*

STAMPA GB
MACROMOLEC 2 203 69 16R N2 D1048
POLYMERS FROM BENZALDEHYDE. A COPOLYMER WITH DIHYDROPYRAN AND CYCLIC TRIMER.

classification. The *SCI* also embodies the citation approach. Presumably 'hard-core' chemistry is better covered in *CA*, whilst 'crossdisciplinary' chemistry is better covered in the *SCI*.

To find out about the ease or difficulty of locating desired information in the two systems, comparative tests using typical chemical subjects under typical circumstances are required—a daunting exercise which, as far as I know, has not been carried out.

But there are certain kinds of search for which the citation approach seems to provide the only possible method of access. Conventionally arranged indexes are likely to be defeated by questions of the type 'is this method being currently applied?' or 'what comments have been published about this proposal?'. For example, aspects of Einstein's work on molecular diffusion (*Annln Phys.*, 1906, **19**, 289) are applicable in 'The viscosity of magnetic suspensions' (W. F. Hall, *J. chem. Phys.*, 1969, **51**, 137), and perhaps less obviously in 'The role of lubrication in biochemical joints' (V. C. Mow, *J. lub. Technol.*, 1969, **91**, 320).

Of even greater interest is the ability to follow cross-disciplinary fertilization produced by an interesting idea. For instance, Longuet Higgins' suggestion that certain processes of the brain may be explainable in terms of holography (*Nature, Lond.*, 1968, **217**, 104) was taken up in the *Journal of the Society of Cosmetic Chemists* by I. B. H. Crawford (1968, **19**, 503), who suggested that colour may be perceived by a similar process; the title words 'Eyeswet and colour science in cosmetics' are hardly indicative of the connection.

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***ZHURNAL OBSCHCEI BIOLOGII	ZH OBS BIOL
**ZHURNAL TEKHNICHESKOI FIZIKI	ZH TEKH FIZ
ZHURNAL VYSSHOI NERVNOI DEYATEL-NOSTI IMUNI I.P. PAVLOVA	ZH VYSS NER
ZOOLOGICA SCRIPTA	ZOOL SCR

ANNUAL

SOURCE JOURNALS

Arranged by Abbreviation

AAEFES A	ALBRECHT VON GRAEFES ARCHIV FUR KLINISCHE UND EXPERIMENTELLE OPHTHALMOLOGIE
AN LEEUW	ANTONIE VAN LEEUWENHOEK JOURNAL OF MICROBIOLOGY AND SEROLOGY
AB	AACE BULLETIN
ABRASIV ENG	ABRASIVE ENGINEERING
ABSTR PAP ACS	ABSTRACTS OF PAPERS. AMERICAN CHEMICAL SOCIETY
ACCOUNT CHEM RE	ACCOUNTS OF CHEMICAL RESEARCH
ACTA AGRON H	ACTA AGRONOMICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA ALLERG	ACTA ALLERGOLOGICA, AND SUPPLEMENTUM
ACTA ANAE SC	ACTA ANAESTHESIOLOGICA SCANDINAVICA, AND SUPPLEMENTUM
ACTA ANATOM	ACTA ANATOMICA, AND SUPPLEMENTUM
ACTA BIO C B	ACTA BIOLOGICA CRACOVIENSIA. SERIES BOTANICA
ACTA BIO C Z	ACTA BIOLOGICA CRACOVIENSIA. SERIES ZOOLOGIA
ACTA BIO IRA	ACTA BIOCHIMICA IRANICA
ACTA BIO MED	ACTA BIOLOGICA ET MEDICA [illegible]
ACTA BIOCH H	ACTA BIOCHIMICA AND BIOPHYSICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA BIOCH P	ACTA BIOCHIMICA POLONICA
ACTA BIOL H	ACTA BIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA BOT NEE	ACTA BOTANICA NEERLANDICA
ACTA CHEM SC	ACTA CHEMICA SCANDINAVICA
ACTA CHIM H	ACTA CHIMICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA CHIR H	ACTA CHIRURGICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA CHIR SC	ACTA CHIRURGICA SCANDINAVICA
ACTA CIENT V	ACTA CIENTIFICA VENEZOLANA
ACTA CRYST A	ACTA CRYSTALLOGRAPHICA. SECTION A CRYSTAL PHYSICS, DIFFRACTION, THEORETICAL AND GENERAL CRYSTALLOGRAPHY
ACTA CRYST B	ACTA CRYSTALLOGRAPHICA. SECTION B STRUCTURAL CRYSTALLOGRAPHY AND CRYSTAL CHEMISTRY
ACTA CYTOL	ACTA CYTOLOGICA
ACTA DER-VEN	ACTA DERMATO-VENEREOLOGICA, AND SUPPLEMENTUM
ACTA ENDOCR	ACTA ENDOCRINOLOGICA, AND SUPPLEMENTUM
ACTA ENT BOH	ACTA ENTOMOLOGICA BOHEMOSLOVACA
ACTA GENET M	ACTA GENETICAE MEDICAE ET GEMELLOLOGIAE, AND SUPPLEMENTUM
ACTA GERONT	ACTA GERONTOLOGICA
ACTA HAEMAT	ACTA HAEMATOLOGICA
ACTA HEP-GAS	ACTA HEPATO-GASTROENTEROLOGICA
ACTA HISTOCH	ACTA HISTOCHEMICA, AND SUPPLEMENTBAND
ACTA ISOTOP	ACTA ISOTOPICA
ACTA MATH	ACTA MATHEMATICA, UPPSALA
ACTA MATH H	ACTA MATHEMATICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA MECHAN	ACTA MECHANICA
ACTA MED H	ACTA MEDICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA MED OKA	ACTA MEDICINAE OKAYAMA
ACTA MED SC	ACTA MEDICA SCANDINAVICA, AND SUPPLEMENTUM
ACTA METALL	ACTA METALLURGICA
ACTA MIC P A	ACTA MICROBIOLOGICA POLONICA. SERIES A. MICROBIOLOGIA GENERALIS
ACTA MIC P B	ACTA MICROBIOLOGICA POLONICA. SERIES B. MICROBIOLOGIA APPLICATA
ACTA MICRO H	ACTA MICROBIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA MORPH H	ACTA MORPHOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE, AND SUPPLEMENTUM
ACTA MORPH N	ACTA MORPHOLOGICA NEERLANDO-SCANDINAVICA
ACTA NEUR SC	ACTA NEUROLOGICA SCANDINAVICA, AND SUPPLEMENTUM
ACTA NEUROCH	ACTA NEUROCHIRURGICA
ACTA NEUROP	ACTA NEUROPATHOLOGICA
ACTA OBST SC	ACTA OBSTETRICIA ET GYNECOLOGICA SCANDINAVICA, AND SUPPLEMENTUM
ACTA ODON SC	ACTA ODONTOLOGICA SCANDINAVICA
ACTA OPHTH K	ACTA OPHTHALMOLOGICA, KOBENHAVN, AND SUPPLEMENTUM
ACTA ORTH SC	ACTA ORTHOPAEDICA SCANDINAVICA, AND SUPPLEMENTUM
ACTA OTO-LAR	ACTA OTO-LARYNGOLOGICA
ACTA PAED H	ACTA PAEDIATRICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA PAED SC	ACTA PAEDIATRICA SCANDINAVICA, AND SUPPLEMENTUM
ACTA PAT JAP	ACTA PATHOLOGICA JAPONICA
ACTA PAT S A	ACTA PATHOLOGICA ET MICROBIOLOGICA SCANDINAVICA. SECTION A. PATHOLOGY
ACTA PAT S B	ACTA PATHOLOGICA ET MICROBIOLOGICA SCANDINAVICA. SECTION B. MICROBIOLOGY AND IMMUNOLOGY
ACTA PHARM S	ACTA PHARMACEUTICA SUECICA
ACTA PHARM T	ACTA PHARMACOLOGICA ET TOXICOLOGICA, AND SUPPLEMENTUM
ACTA PHYS AU	ACTA PHYSICA AUSTRIACA
ACTA PHYS CH	ACTA PHYSICA ET CHEMICA
ACTA PHYS H	ACTA PHYSICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA PHYSL H	ACTA PHYSIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA PHYSL L	ACTA PHYSIOLOGICA LATINO-AMERICANA
ACTA PHYSL P	ACTA PHYSIOLOGICA POLONICA
ACTA PHYSL S	ACTA PHYSIOLOGICA SCANDINAVICA, AND SUPPLEMENTUM
ACTA POL PH	ACTA POLONIAE PHARMACEUTICA
ACTA POLY CH	ACTA POLYTECHNICA SCANDINAVICA. CHEMISTRY INCLUDING METALLURGY SERIES
ACTA POLY CI	ACTA POLYTECHNICA SCANDINAVICA. CIVIL ENGINEERING AND BUILDING CONSTRUCTION SERIES
ACTA POLY EL	ACTA POLYTECHNICA SCANDINAVICA. ELECTRICAL ENGINEERING SERIES
ACTA POLY MA	ACTA POLYTECHNICA SCANDINAVICA. MATHEMATICS AND COMPUTING MACHINERY SERIES
ACTA POLY ME	ACTA POLYTECHNICA SCANDINAVICA. MECHANICAL ENGINEERING SERIES
ACTA POLY PH	ACTA POLYTECHNICA SCANDINAVICA. PHYSICS INCLUDING NUCLEONICS SERIES
ACTA PSYC SC	ACTA PSYCHIATRICA SCANDINAVICA, AND SUPPLEMENTUM
ACTA PSYCHOL	ACTA PSYCHOLOGICA
ACTA RAD DGN	ACTA RADIOLOGICA. DIAGNOSIS
ACTA RAD TPB	ACTA RADIOLOGICA. THERAPY, PHYSICS, BIOLOGY
ACTA SCI MAT	ACTA SCIENTIARUM MATHEMATICARUM
ACTA SOC MED	ACTA SOCIETATIS MEDICORUM UPSALIENSIS
ACTA SOCIOL	ACTA SOCIOLOGICA
ACTA TECHN H	ACTA TECHNICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA U CAR M	ACTA UNIVERSITATIS CAROLINAE. MEDICA
ACTA VET H	ACTA VETERINARIA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTA VET SC	ACTA VETERINARIA SCANDINAVICA, AND SUPPLEMENTUM
ACTA VIROLOG	ACTA VIROLOGICA. ENGLISH EDITION
ACTA VIT ENZ	ACTA VITAMINOLOGICA ET ENZYMOLOGICA
ACTA ZOOL H	ACTA ZOOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE
ACTIV NERV	ACTIVITAS NERVOSA SUPERIOR
ACUSTICA	ACUSTICA
ADHES AGE	ADHESIVES AGE
ADM MANAG	ADMINISTRATIVE MANAGEMENT
ADV CHEM SE	ADVANCES IN CHEMISTRY SERIES
ADV CY NU R	ADVANCES IN CYCLIC NUCLEOTIDE RESEARCH
ADV ENZYM	ADVANCES IN ENZYMOLOGY
ADV GENETIC	ADVANCES IN GENETICS
ADV HUM GEN	ADVANCES IN HUMAN GENETICS
ADV MAR BIO	ADVANCES IN MARINE BIOLOGY
ADV MATH	ADVANCES IN MATHEMATICS
ADV MOL REL	ADVANCES IN MOLECULAR RELAXATION PROCESSES
ADV OBSTET	ADVANCES IN OBSTETRICS AND GYNECOLOGY
ADV OPHTHAL	ADVANCES IN OPHTHALMOLOGY
ADV PHYSICS	ADVANCES IN PHYSICS
ADV PSY MED	ADVANCES IN PSYCHOSOMATIC MEDICINE
ADV R PHYSL	ADVANCES IN REPRODUCTIVE PHYSIOLOGY
ADV SPA SCI	ADVANCES IN SPACE SCIENCE AND TECHNOLOGY
AERONAUT J	AERONAUTICAL JOURNAL
AERONAUT Q	AERONAUTICAL QUARTERLY
AEROSP MED	AEROSPACE MEDICINE
AEROTEC M S	AEROTECNICA MISSILI E SPAZIO
AG CHEM	AG CHEM AND COMMERCIAL FERTILIZER
AGENT ACTIO	AGENTS AND ACTIONS
AGR BIOL CH	AGRICULTURAL AND BIOLOGICAL CHEMISTRY
AGR ECON RE	AGRICULTURAL ECONOMICS RESEARCH
AGR EDUC MA	AGRICULTURAL EDUCATION MAGAZINE
AGR ENG	AGRICULTURAL ENGINEERING
AGR HOR GEN	AGRI HORTIQUE GENETICA
AGR METEOR	AGRICULTURAL METEOROLOGY
AGR RES	AGRICULTURAL RESEARCH
AGR SCI REV	AGRICULTURAL SCIENCE REVIEW
AGRESSOLOG	AGRESSOLOGIE
AGRICULTURE	AGRICULTURE
AGROCHIMICA	AGROCHIMICA
AGRON J	AGRONOMY JOURNAL
AIAA J	AIAA JOURNAL
AICHE J	AICHE JOURNAL
AIR FOR CE	AIR FORCE CIVIL ENGINEER
AIRCR ENG	AIRCRAFT ENGINEERING
AM A PETR G	AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS. BULLETIN
AM ANTHROP	AMERICAN ANTHROPOLOGIST
AM BEHAV SC	AMERICAN BEHAVIORAL SCIENTIST
AM BIOL TEA	AMERICAN BIOLOGY TEACHER
AM CERAM S	AMERICAN CERAMIC SOCIETY BULLETIN
AM DAIRY R	AMERICAN DAIRY REVIEW
AM DYE REP	AMERICAN DYESTUFF REPORTER
AM FAM PHYS	AMERICAN FAMILY PHYSICIAN
AM FRUIT GR	AMERICAN FRUIT GROWER
AM GAS AS M	AMERICAN GAS ASSOCIATION MONTHLY
AM HEART J	AMERICAN HEART JOURNAL
AM HORT	AMERICAN HORTICULTURIST
AM HORT MAG	AMERICAN HORTICULTURAL MAGAZINE
AM IND HYG	AMERICAN INDUSTRIAL HYGIENE ASSOCIATION JOURNAL
AM J AGR EC	AMERICAN JOURNAL OF AGRICULTURAL ECONOMICS
AM J ANAT	AMERICAN JOURNAL OF ANATOMY
AM J BOTANY	AMERICAN JOURNAL OF BOTANY
AM J CARD	AMERICAN JOURNAL OF CARDIOLOGY
AM J CLIN N	AMERICAN JOURNAL OF CLINICAL NUTRITION
AM J CLIN P	AMERICAN JOURNAL OF CLINICAL PATHOLOGY
AM J DIG DI	AMERICAN JOURNAL OF DIGESTIVE DISEASES
AM J DIS CH	AMERICAN JOURNAL OF DISEASES OF CHILDREN
AM J ECON S	AMERICAN JOURNAL OF ECONOMICS AND SOCIOLOGY
AM J ENOL V	AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE
AM J EPIDEM	AMERICAN JOURNAL OF EPIDEMIOLOGY
AM J GASTRO	AMERICAN JOURNAL OF GASTROENTEROLOGY
AM J HOSP P	AMERICAN JOURNAL OF HOSPITAL PHARMACY
AM J HU GEN	AMERICAN JOURNAL OF HUMAN GENETICS
AM J MATH	AMERICAN JOURNAL OF MATHEMATICS
AM J MED	AMERICAN JOURNAL OF MEDICINE
AM J MED SC	AMERICAN JOURNAL OF THE MEDICAL SCIENCES
AM J MED TE	AMERICAN JOURNAL OF MEDICAL TECHNOLOGY
AM J MENT D	AMERICAN JOURNAL OF MENTAL DEFICIENCY
AM J OBST G	AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY
AM J OPHTH	AMERICAN JOURNAL OF OPHTHALMOLOGY
AM J OPTOM	AMERICAN JOURNAL OF OPTOMETRY AND ARCHIVES OF AMERICAN ACADEMY OF OPTOMETRY
AM J ORTHOD	AMERICAN JOURNAL OF ORTHODONTICS
AM J ORTHOP	AMERICAN JOURNAL OF ORTHOPSYCHIATRY
AM J P ANTH	AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY
AM J PATH	AMERICAN JOURNAL OF PATHOLOGY
AM J PHAR E	AMERICAN JOURNAL OF PHARMACEUTICAL EDUCATION
AM J PHARM	AMERICAN JOURNAL OF PHARMACY
AM J PHYS	AMERICAN JOURNAL OF PHYSICS
AM J PHYS M	AMERICAN JOURNAL OF PHYSICAL MEDICINE
AM J PHYSL	AMERICAN JOURNAL OF PHYSIOLOGY
AM J PSYCHA	AMERICAN JOURNAL OF PSYCHOANALYSIS
AM J PSYCHI	AMERICAN JOURNAL OF PSYCHIATRY
AM J PSYCHO	AMERICAN JOURNAL OF PSYCHOLOGY
AM J PSYCHT	AMERICAN JOURNAL OF PSYCHOTHERAPY
AM J PUB HE	AMERICAN JOURNAL OF PUBLIC HEALTH AND THE NATIONS HEALTH
AM J ROENTG	AMERICAN JOURNAL OF ROENTGENOLOGY RADIUM THERAPY, AND NUCLEAR MEDICINE
AM J SCI	AMERICAN JOURNAL OF SCIENCE
AM J SOCIOL	AMERICAN JOURNAL OF SOCIOLOGY
AM J SURG	AMERICAN JOURNAL OF SURGERY
AM J TROP M	AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE
AM J VET RE	AMERICAN JOURNAL OF VETERINARY RESEARCH
AM MATH MO	AMERICAN MATHEMATICAL MONTHLY
AM MIDL NAT	AMERICAN MIDLAND NATURALIST
AM MINERAL	AMERICAN MINERALOGIST
AM NATURAL	AMERICAN NATURALIST
AM PAP IND	AMERICAN PAPER INDUSTRY
AM POLI SCI	AMERICAN POLITICAL SCIENCE REVIEW
AM POTATO J	AMERICAN POTATO JOURNAL
AM PSYCHOL	AMERICAN PSYCHOLOGIST
AM R RESP D	AMERICAN REVIEW OF RESPIRATORY DISEASES
AM SCIENT	AMERICAN SCIENTIST
AM SOCIOL	AMERICAN SOCIOLOGIST
AM SOCIOL R	AMERICAN SOCIOLOGICAL REVIEW
AM STATISTN	AMERICAN STATISTICIAN
AM ZOOLOG	AMERICAN ZOOLOGIST
AN AC BRASI	ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS
AN AS QUIM	ANALES DE LA ASOCIACION QUIMICA ARGENTINA
AN FISICA	ANALES DE FISICA
AN QUIMICA	ANALES DE QUIMICA
ANAESTHESIA	ANAESTHESIA
ANAESTHESIS	ANAESTHESIST
ANAL LETTER	ANALYTICAL LETTERS
ANALUSIS	ANALUSIS
ANALYST	ANALYST
ANALYT BIOC	ANALYTICAL BIOCHEMISTRY
ANALYT CHEM	ANALYTICAL CHEMISTRY
ANALYT CHIM	ANALYTICA CHIMICA ACTA
ANAT REC	ANATOMICAL RECORD
ANESTH AN R	ANESTHESIE, ANALGESIE, REANIMATION
ANESTH ANAL	ANESTHESIA AND ANALGESIA, CURRENT RESEARCHES
ANESTHESIOL	ANESTHESIOLOGY
ANGEW CHEM	ANGEWANDTE CHEMIE. INTERNATIONAL EDITION IN ENGLISH
ANGEW INFOR	ANGEWANDTE INFORMATIK
ANGEW MAKRO	ANGEWANDTE MAKROMOLEKULARE CHEMIE
ANGIOLOGICA	ANGIOLOGICA
ANGIOLOGY	ANGIOLOGY
ANGL ORTHOD	ANGLE ORTHODONTIST
ANIM BEHAV	ANIMAL BEHAVIOUR
ANIM PRODUC	ANIMAL PRODUCTION
ANN A PLANT	ANNALES DE L AMELIORATION DES PLANTES
ANN AGRON	ANNALES AGRONOMIQUES
ANN ALLERGY	ANNALS OF ALLERGY

ANN ANIM PS	ANNUAL OF ANIMAL PSYCHOLOGY
ANN AP BIOL	ANNALS OF APPLIED BIOLOGY
ANN BIOL AN	ANNALES DE BIOLOGIE ANIMALE BIOCHIMIE BIOPHYSIQUE
ANN BIOL CL	ANNALES DE BIOLOGIE CLINIQUE
ANN BOTANY	ANNALS OF BOTANY
ANN BRUX 1	ANNALES DE LA SOCIETE SCIENTIFIQUE DE BRUXELLES SERIE 1. SCIENCES MATHEMATIQUES, ASTRONOMIQUES ET PHYSIQUES
ANN CARD AN	ANNALES DE CARDIOLOGIE ET D ANGEIOLOGIE
ANN CHEM	ANNALEN DER CHEMIE, JUSTUS LIEBIG
ANN CHIM	ANNALI DI CHIMICA
ANN CHIM FR	ANNALES DE CHIMIE, FRANCE
ANN CHIR	ANNALES DE CHIRURGIE
ANN CHIR GY	ANNALES CHIRURGIAE ET GYNAECOLOGIAE FENNIAE
ANN CHIR IN	ANNALES DE CHIRURGIE INFANTILE
ANN CHIR PL	ANNALES DE CHIRURGIE PLASTIQUE
ANN CLIN R	ANNALS OF CLINICAL RESEARCH
ANN DER SYP	ANNALES DE DERMATOLOGIE ET DE SYPHILIGRAPHIE
ANN ENDOCR	ANNALES D ENDOCRINOLOGIE, ET SUPPLEMENTAIRE
ANN ENT S A	ANNALS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA
ANN GASTRO	ANNALES DE GASTROENTEROLOGIE ET D HEPATOLOGIE
ANN GENET	ANNALES DE GENETIQUE
ANN GEOFIS	ANNALI DI GEOFISICA
ANN GEOPHYS	ANNALES DE GEOPHYSIQUE
ANN HISTOCH	ANNALES D HISTOCHIMIE
ANN HUM GEN	ANNALS OF HUMAN GENETICS
ANN I FOUR	ANNALES DE L INSTITUT FOURIER
ANN I HEN A	ANNALES DE L INSTITUT HENRI POINCARE. SECTION A. PHYSIQUE THEORIQUE
ANN I HEN B	ANNALES DE L INSTITUT HENRI POINCARE. SECTION B. CALCUL DES PROBABILITES ET STATISTIQUE
ANN I OCEAN	ANNALES DE L INSTITUT OCEANOGRAPHIQUE
ANN I STAT	ANNALS OF THE INSTITUTE OF STATISTICAL MATHEMATICS
ANN IN PAST	ANNALES DE L INSTITUT PASTEUR
ANN INT MED	ANNALS OF INTERNAL MEDICINE
ANN MATH	ANNALS OF MATHEMATICS
ANN MATH ST	ANNALS OF MATHEMATICAL STATISTICS
ANN MED EXP	ANNALES MEDICINAE EXPERIMENTALIS ET BIOLOGIAE FENNIAE
ANN MO BOT	ANNALS OF THE MISSOURI BOTANICAL GARDEN
ANN NUTR AL	ANNALES DE LA NUTRITION ET DE LALIMENTATION
ANN NY ACAD	ANNALS OF THE NEW YORK ACADEMY OF SCIENCES
ANN OTOL RN	ANNALS OF OTOLOGY, RHINOLOGY AND LARYNGOLOGY
ANN PHARM F	ANNALES PHARMACEUTIQUES FRANCAISES
ANN PHYS BI	ANNALES DE PHYSIQUE BIOLOGIQUE ET MEDICALE
ANN PHYSICS	ANNALS OF PHYSICS
ANN PHYSIK	ANNALEN DER PHYSIK
ANN PHYSIQ	ANNALES DE PHYSIQUE
ANN PSYCHOL	ANNEE PSYCHOLOGIQUE
ANN R ASTRO	ANNUAL REVIEW OF ASTRONOMY AND ASTROPHYSICS
ANN R BIOCH	ANNUAL REVIEW OF BIOCHEMISTRY
ANN R ENTOM	ANNUAL REVIEW OF ENTOMOLOGY
ANN R FLUID	ANNUAL REVIEW OF FLUID MECHANICS
ANN R GENET	ANNUAL REVIEW OF GENETICS
ANN R MED	ANNUAL REVIEW OF MEDICINE
ANN R MICRO	ANNUAL REVIEW OF MICROBIOLOGY
ANN R NUCL	ANNUAL REVIEW OF NUCLEAR SCIENCE
ANN R PH CH	ANNUAL REVIEW OF PHYSICAL CHEMISTRY
ANN R PHARM	ANNUAL REVIEW OF PHARMACOLOGY
ANN R PHYSL	ANNUAL REVIEW OF PHYSIOLOGY
ANN R PHYTO	ANNUAL REVIEW OF PHYTOPATHOLOGY
ANN R PLANT	ANNUAL REVIEW OF PLANT PHYSIOLOGY
ANN R PSYCH	ANNUAL REVIEW OF PSYCHOLOGY
ANN RADIOL	ANNALES DE RADIOLOGIE, RADIOLOGIE CLINIQUE - RADIOBIOLOGIE
ANN RHEUM D	ANNALS OF THE RHEUMATIC DISEASES
ANN RP CH A	ANNUAL REPORTS ON THE PROGRESS OF CHEMISTRY. SECTION A. GENERAL PHYSICAL AND INORGANIC CHEMISTRY
ANN RP CH B	ANNUAL REPORTS ON THE PROGRESS OF CHEMISTRY. SECTION B. ORGANIC CHEMISTRY
ANN SOC ENT	ANNALES DE LA SOCIETE ENTOMOLOGIQUE DE FRANCE
ANN SURG	ANNALS OF SURGERY
ANN TEC AGR	ANNALES DE TECHNOLOGIE AGRICOLE
ANN TELECOM	ANNALES DES TELECOMMUNICATIONS
ANN TROP M	ANNALS OF TROPICAL MEDICINE AND PARASITOLOGY
ANN UROL	ANNALES D UROLOGIE
ANN ZOOTECH	ANNALES DE ZOOTECHNIE
ANTARCTIC J	ANTARCTIC JOURNAL OF THE UNITED STATES
ANTI-CORROS	ANTI-CORROSION METHODS AND MATERIALS
ANTIBIOTIKI	ANTIBIOTIKI
ANTIM AG CH	ANTIMICROBIAL AGENTS AND CHEMOTHERAPY
APP PLAS RE	APPLIED PLASTICS AND REINFORCED PLASTICS REVIEW
APPITA	APPITA
APPL MICROB	APPLIED MICROBIOLOGY
APPL OPTICS	APPLIED OPTICS
APPL PHYS L	APPLIED PHYSICS LETTERS
APPL SCI RE	APPLIED SCIENTIFIC RESEARCH
APPL SP REV	APPLIED SPECTROSCOPY REVIEWS
APPL SPECTR	APPLIED SPECTROSCOPY
ARB U B MAT	ARBOK FOR UNIVERSITETET I BERGEN. MATEMATISK-NATURVITENSKAPELIG SERIE
ARCH ANAT M	ARCHIVES D ANATOMIE MICROSCOPIQUE ET DE MORPHOLOGIE EXPERIMENTALE
ARCH BIOCH	ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS
ARCH BIOL M	ARCHIVOS DE BIOLOGIA Y MEDICINA EXPERIMENTALES
ARCH DERM F	ARCHIV FUR DERMATOLOGISCHE FORSCHUNG
ARCH DERMAT	ARCHIVES OF DERMATOLOGY
ARCH DIS CH	ARCHIVES OF DISEASE IN CHILDHOOD
ARCH EISENH	ARCHIV FUR DAS EISENHUTTENWESEN
ARCH ELEK U	ARCHIV FUR ELEKTRONIK UND UBERTRAGUNGSTECHNIK
ARCH ELEKTR	ARCHIV FUR ELEKTROTECHNIK
ARCH ENV HE	ARCHIVES OF ENVIRONMENTAL HEALTH
ARCH FISCH	ARCHIV FUR FISCHEREIWISSENSCHAFT
ARCH FR MAL	ARCHIVES FRANCAISES DES MALADIES DE L APPAREIL DIGESTIF
ARCH FR PED	ARCHIVES FRANCAISES DE PEDIATRIE
ARCH G PSYC	ARCHIVES OF GENERAL PSYCHIATRY
ARCH G VIR	ARCHIV FUR DIE GESAMTE VIRUSFORSCHUNG
ARCH GESCHW	ARCHIV FUR GESCHWULSTFORSCHUNG
ARCH GYNAK	ARCHIV FUR GYNAKOLOGIE
ARCH HIST E	ARCHIVE FOR HISTORY OF EXACT SCIENCES
ARCH HYDROB	ARCHIV FUR HYDROBIOLOGIE
ARCH I BIOL	ARCHIVOS DEL INSTITUTO DE BIOLOGIA ANDINA
ARCH I PHAR	ARCHIVES INTERNATIONALES DE PHARMACODYNAMIE ET DE THERAPIE
ARCH I PHYS	ARCHIVES INTERNATIONALES DE PHYSIOLOGIE ET DE BIOCHIMIE
ARCH IN MED	ARCHIVES OF INTERNAL MEDICINE
ARCH INV M	ARCHIVOS DE INVESTIGACION MEDICA
ARCH IT BIO	ARCHIVES ITALIENNES DE BIOLOGIE
ARCH KL EXP	ARCHIV FUR KLINISCHE UND EXPERIMENTELLE OHREN-NASEN-UND KEHLKOPFHEILKUNDE
ARCH KREISL	ARCHIV FUR KREISLAUFFORSCHUNG
ARCH MAL C	ARCHIVES DES MALADIES DU COEUR ET DES VAISSEAUX
ARCH MAL PR	ARCHIVES DES MALADIES PROFESSIONNELLES DE MEDECINE DU TRAVAIL ET DE SECURITE SOCIALE
ARCH MATH	ARCHIV DER MATHEMATIK
ARCH MECH	ARCHIVES OF MECHANICS
ARCH MIKROB	ARCHIV FUR MIKROBIOLOGIE
ARCH NEUROL	ARCHIVES OF NEUROLOGY
ARCH OCEAN	ARCHIVIO DI OCEANOGRAFIA E LIMNOLOGIA
ARCH OPHTAL	ARCHIVES D OPHTALMOLOGIE
ARCH OPHTH	ARCHIVES OF OPHTHALMOLOGY
ARCH ORAL B	ARCHIVES OF ORAL BIOLOGY
ARCH ORTHOP	ARCHIV FUR ORTHOPADISCHE UND UNFALLCHIRURGIE
ARCH OTOLAR	ARCHIVES OF OTOLARYNGOLOGY
ARCH PATH	ARCHIVES OF PATHOLOGY
ARCH PHARM	ARCHIV DER PHARMAZIE UND BERICHTE DER DEUTSCHEN PHARMAZEUTISCHEN GESELLSCHAFT
ARCH PHYS M	ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION
ARCH PSYCHI	ARCHIV FUR PSYCHIATRIE UND NERVENKRANKHEITEN
ARCH R MECH	ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS
ARCH S A OF	ARCHIVOS DE LA SOCIEDAD AMERICANA DE OFTALMOLOGIA Y OPTOMETRIA
ARCH SCI	ARCHIVES DES SCIENCES
ARCH SCI PH	ARCHIVES DES SCIENCES PHYSIOLOGIQUES
ARCH SURG	ARCHIVES OF SURGERY
ARCH TECH M	ARCHIV FUR TECHNISCHES MESSEN UND INDUSTRIELLE MESSTECHNIK
ARCH TECH M	ARCHIV FUR TECHNISCHES MESSEN UND MESSTECHNISCHE PRAXIS
ARCH TOXIK	ARCHIV FUR TOXIKOLOGIE
ARCTIC	ARCTIC
ARDEA	ARDEA
ARK ASTRON	ARKIV FOR ASTRONOMI
ARK BOTAN	ARKIV FOR BOTANIK
ARK FYSIK	ARKIV FOR FYSIK
ARK GEOFYS	ARKIV FOR GEOFYSIK
ARK KEMI	ARKIV FOR KEMI
ARK MATEMAT	ARKIV FOR MATEMATIK
ARK MIN GEO	ARKIV FOR MINERALOGI OCH GEOLOGI
ARK ZOOL	ARKIV FOR ZOOLOGI
ARM KHIM ZH	ARMYANSKII KHIMICHESKII ZHURNAL
ARTH RHEUM	ARTHRITIS AND RHEUMATISM
ARZNEI-FOR	ARZNEIMITTEL-FORSCHUNG
ASHRAE J	ASHRAE JOURNAL
ASLE TRANS	ASLE TRANSACTIONS
ASLIB PROC	ASLIB PROCEEDINGS
ASTRO AERON	ASTRONAUTICS AND AERONAUTICS
ASTRO SP SC	ASTROPHYSICS AND SPACE SCIENCE
ASTRON ASTR	ASTRONOMY AND ASTROPHYSICS
ASTRONAUT A	ASTRONAUTICA ACTA
ASTRONOM J	ASTRONOMICAL JOURNAL
ASTRONOM ZH	ASTRONOMICHESKIIA ZHURNAL
ASTROPH J S	ASTROPHYSICAL JOURNAL. SUPPLEMENT SERIES
ASTROPHYS J	ASTROPHYSICAL JOURNAL
ASTROPHYS L	ASTROPHYSICAL LETTERS
ATHEROSCLER	ATHEROSCLEROSIS
ATMOS ENVIR	ATMOSPHERIC ENVIRONMENT
ATOM ENER A	ATOMIC ENERGY, AUSTRALIA
ATOM ENER R	ATOMIC ENERGY REVIEW
ATOM STROM	ATOM UND STROM
ATOMKERNENE	ATOMKERNENERGIE
ATOMNAYA EN	ATOMNAYA ENERGIYA
ATOMWIRTSCH	ATOMWIRTSCHAFT
ATT ANL R F	ATTI DELLA ACCADEMIA NAZIONALE DEI LINCEI. RENDICONTI. CLASSE DI SCIENZE FISICHE, MATEMATICHE E NATURALI
AUDIO	AUDIO
AUDIOLOGY	AUDIOLOGY
AUK	AUK
AUST J AGR	AUSTRALIAN JOURNAL OF AGRICULTURAL RESEARCH
AUST J BIOL	AUSTRALIAN JOURNAL OF BIOLOGICAL SCIENCES
AUST J BOT	AUSTRALIAN JOURNAL OF BOTANY
AUST J CHEM	AUSTRALIAN JOURNAL OF CHEMISTRY
AUST J DAIR	AUSTRALIAN JOURNAL OF DAIRY TECHNOLOGY
AUST J EX B	AUSTRALIAN JOURNAL OF EXPERIMENTAL BIOLOGY AND MEDICAL SCIENCE
AUST J INST	AUSTRALIAN JOURNAL OF INSTRUMENTATION AND CONTROL
AUST J MAR	AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH
AUST J PHYS	AUSTRALIAN JOURNAL OF PHYSICS
AUST J PSYC	AUSTRALIAN JOURNAL OF PSYCHOLOGY
AUST J SOIL	AUSTRALIAN JOURNAL OF SOIL RESEARCH
AUST J STAT	AUSTRALIAN JOURNAL OF STATISTICS
AUST NZ J M	AUSTRALIAN AND NEW ZEALAND JOURNAL OF MEDICINE
AUST NZ J O	AUSTRALIAN AND NEW ZEALAND JOURNAL OF OBSTETRICS AND GYNAECOLOGY
AUST NZ J S	AUSTRALIAN AND NEW ZEALAND JOURNAL OF SURGERY
AUST PAEDIA	AUSTRALIAN PAEDIATRIC JOURNAL
AUST RADIOL	AUSTRALASIAN RADIOLOGY
AUST VET J	AUSTRALIAN VETERINARY JOURNAL
AUT REMOT R	AUTOMATION AND REMOTE CONTROL, USSR
AUT WELD R	AUTOMATIC WELDING USSR
AUTOMATICA	AUTOMATICA
AUTOMATISME	AUTOMATISME
AVIAN DIS	AVIAN DISEASES
B AM MATH S	BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY
B AM METEOR	BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY
B AM PHYS S	BULLETIN OF THE AMERICAN PHYSICAL SOCIETY
B ASTR I CZ	BULLETIN OF THE ASTRONOMICAL INSTITUTES OF CZECHOSLOVAKIA
B CALC MATH	BULLETIN OF THE CALCUTTA MATHEMATICAL SOCIETY
B CANCER	BULLETIN DU CANCER
B CHEM S J	BULLETIN OF THE CHEMICAL SOCIETY OF JAPAN
B CSAR BELG	BULLETIN DE LA CLASSE DES SCIENCES. ACADEMIE ROYALE DE BELGIQUE
B EKSP BIOL	BIULLETEN EKSPERIMENTALNOI BIOLOGII I MEDITSINY
B ENT RES	BULLETIN OF ENTOMOLOGICAL RESEARCH
B ENVIR CON	BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY
B EUR S HUM	BULLETIN OF THE EUROPEAN SOCIETY OF HUMAN GENETICS
B EX BIO R	BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE, USSR
B I PASTEUR	BULLETIN DE L INSTITUT PASTEUR
B I QUIM	BOLETIN DEL INSTITUTO DE QUIMICA DE LA UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO
B I ZOOL AS	BULLETIN OF THE INSTITUTE OF ZOOLOGY ACADEMIA SINICA
B INF SCI T	BULLETIN D INFORMATIONS SCIENTIFIQUES ET TECHNIQUES, AND SUPPLEMENT
B ITAL BIOL	BOLLETTINO DELLA SOCIETA ITALIANA DI BIOLOGIA SPERIMENTALE
B JAP S S F	BULLETIN OF THE JAPANESE SOCIETY OF SCIENTIFIC FISHERIES
B MARIN SCI	BULLETIN OF MARINE SCIENCE
B MATH BIOP	BULLETIN OF MATHEMATICAL BIOPHYSICS
B MATH STAT	BULLETIN OF MATHEMATICAL STATISTICS
B MED LIB A	BULLETIN OF THE MEDICAL LIBRARY ASSOCIATION
B NARCOTICS	BULLETIN ON NARCOTICS
B NJ ACAD S	BULLETIN. NEW JERSEY ACADEMY OF SCIENCE
B NY AC MED	BULLETIN OF THE NEW YORK ACADEMY OF MEDICINE
B OF SAN PA	BOLETIN DE LA OFICINA SANITARIA PANAMERICANA
B PHYSIO PA	BULLETIN DE PHYSIO-PATHOLOGIE RESPIRATOIRE
B POL BIOL	BULLETIN DE L ACADEMIE POLONAISE DES SCIENCES. SERIE DES SCIENCES BIOLOGIQUES
B POL CHIM	BULLETIN DE L ACADEMIE POLONAISE DES SCIENCES. SERIE DES SCIENCES CHIMIQUE
B POL MATH	BULLETIN DE L ACADEMIE POLONAISE DES SCIENCES. SERIE DES SCIENCES MATHEMATIQUES, ASTRONOMIQUES ET PHYSIQUES
B POL SCI T	BULLETIN DE L ACADEMIE POLONAISE DES SCIENCES. SERIE DES SCIENCES DE LA TERRE
B POL TECHN	BULLETIN DE L ACADEMIE POLONAISE DES SCIENCES. SERIE DES SCIENCES TECHNIQUES
B S BOT FR	BULLETIN DE LA SOCIETE BOTANIQUE DE FRANCE
B S CHIM BE	BULLETIN DES SOCIETES CHIMIQUES BELGES
B S CHIM FR	BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE
B S FR CER	BULLETIN DE LA SOCIETE FRANCAISE DE CERAMIQUE
B S FR D SY	BULLETIN DE LA SOCIETE FRANCAISE DE DERMATOLOGIE ET DE SYPHILIGRAPHIE
B S FR MIN	BULLETIN DE LA SOCIETE FRANCAISE DE MINERALOGIE ET DE CRISTALLOGRAPHIE
B S MATH FR	BULLETIN DE LA SOCIETE MATHEMATIQUE DE FRANCE
B S SCI MED	BULLETIN DE LA SOCIETE DES SCIENCES MEDICALES DU GRAND-DUCHE DE LUXEMBOURG
B SC AK MED	BULLETIN DER SCHWEIZERISCHEN AKADEMIE DER MEDIZINISCHEN WISSENSCHAFTEN
B SCI MATH	BULLETIN DES SCIENCES MATHEMATIQUES
B SEIS S AM	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA
B TOR BOT C	BULLETIN OF THE TORREY BOTANICAL CLUB
B WHO	BULLETIN OF THE WORLD HEALTH ORGANIZATION
BACT REV	BACTERIOLOGICAL REVIEWS
BALL BEAR J	BALL BEARING JOURNAL
BEHAV BIOL	BEHAVIORAL BIOLOGY
BEHAV RES M	BEHAVIOR RESEARCH METHODS AND INSTRUMENTATION
BEHAV RES T	BEHAVIOUR RESEARCH AND THERAPY
BEHAV SCI	BEHAVIORAL SCIENCE
BEHAVIOUR	BEHAVIOUR
BEITR MEER	BEITRAGE ZUR MEERESKUNDE
BEITR PATH	BEITRAGE ZUR PATHOLOGIE
BELL LAB RE	BELL LABORATORIES RECORD
BELL SYST T	BELL SYSTEM TECHNICAL JOURNAL
BER BUN GES	BERICHTE DER BUNSEN GESELLSCHAFT FUR PHYSIKALISCHE CHEMIE
BER DEU BOT	BERICHTE DER DEUTSCHEN BOTANISCHEN GESELLSCHAFT
BER DW MEER	BERICHTE DER DEUTSCHEN WISSENSCHAFTLICHEN KOMMISSION FUR MEERESFORSCHUNG
BERUFS-DERM	BERUFS-DERMATOSEN
BIBL ANATOM	BIBLIOTHECA ANATOMICA
BIBL CARDIO	BIBLIOTHECA CARDIOLOGICA
BIBL GASTRO	BIBLIOTHECA GASTROENTEROLOGICA
BIBL HAEM	BIBLIOTHECA HAEMATOLOGICA
BIBL MICROB	BIBLIOTHECA MICROBIOLOGICA
BIBL NUTR D	BIBLIOTHECA NUTRITIO ET DIETA
BIBL PHONET	BIBLIOTHECA PHONETICA
BIBL PRIMAT	BIBLIOTHECA PRIMATOLOGICA
BIBL PSYCH	BIBLIOTHECA PSYCHIATRICA
BIBL RADIOL	BIBLIOTHECA RADIOLOGICA
BIBL TUB ME	BIBLIOTHECA TUBERCULOSEA AND MEDICINAE THORACALIS
BIKEN J	BIKEN JOURNAL
BIO-MED ENG	BIO-MEDICAL ENGINEERING
BIOC BIOP A	BIOCHIMICA ET BIOPHYSICA ACTA
BIOC BIOP R	BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS
BIOCH PHARM	BIOCHEMICAL PHARMACOLOGY
BIOCHEM	BIOCHEMISTRY
BIOCHEM GEN	BIOCHEMICAL GENETICS
BIOCHEM J	BIOCHEMICAL JOURNAL
BIOCHEM MED	BIOCHEMICAL MEDICINE
BIOCHIMIE	BIOCHIMIE
BIOFIZIKA	BIOFIZIKA
BIOKHIMIYA	BIOKHIMIYA
BIOL B	BIOLOGICAL BULLETIN
BIOL GASTRO	BIOLOGIE ET GASTRO-ENTEROLOGIE
BIOL NEONAT	BIOLOGY OF THE NEONATE
BIOL PLANT	BIOLOGIA PLANTARUM
BIOL PSYCHI	BIOLOGICAL PSYCHIATRY
BIOL REPROD	BIOLOGY OF REPRODUCTION
BIOL REV	BIOLOGICAL REVIEWS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY
BIOMETR Z	BIOMETRISCHE ZEITSCHRIFT
BIOMETRICS	BIOMETRICS
BIOMETRIKA	BIOMETRIKA
BIOPHYS J	BIOPHYSICAL JOURNAL
BIOPHYSIC R	BIOPHYSICS, USSR
BIOPHYSIK	BIOPHYSIK
BIOPOLYMERS	BIOPOLYMERS
BIOSCIENCE	BIOSCIENCE
BIOTECH BIO	BIOTECHNOLOGY AND BIOENGINEERING
BIRD BAND	BIRD-BANDING
BIRD STUDY	BIRD STUDY

TD	BLOOD. THE JOURNAL OF HEMATOLOGY
T	BLUT
AN B A S	BOTANICAL BULLETIN OF ACADEMIA SINICA
AN GAZ	BOTANICAL GAZETTE
AN J LIN	BOTANICAL JOURNAL OF THE LINNEAN SOCIETY
AN MAG	BOTANICAL MAGAZINE, TOKYO
AN MARIN	BOTANICA MARINA
AN NOTIS	BOTANISKA NOTISER
AN REV	BOTANICAL REVIEW
AN TIDS	BOTANISK TIDSSKRIFT
CH ENG P	BRITISH CHEMICAL ENGINEERING AND PROCESS TECHNOLOGY
DENT J	BRITISH DENTAL JOURNAL
HEART J	BRITISH HEART JOURNAL
J ADDICT	BRITISH JOURNAL OF ADDICTION
J ANAEST	BRITISH JOURNAL OF ANAESTHESIA
J CANC	BRITISH JOURNAL OF CANCER
J DERM	BRITISH JOURNAL OF DERMATOLOGY
J ED PSY	BRITISH JOURNAL OF EDUCATIONAL PSYCHOLOGY
J EX PAT	BRITISH JOURNAL OF EXPERIMENTAL PATHOLOGY
J HAEM	BRITISH JOURNAL OF HAEMATOLOGY
J IND ME	BRITISH JOURNAL OF INDUSTRIAL MEDICINE
J MATH S	BRITISH JOURNAL OF MATHEMATICAL AND STATISTICAL PSYCHOLOGY
J MED PS	BRITISH JOURNAL OF MEDICAL PSYCHOLOGY
J NUTR	BRITISH JOURNAL OF NUTRITION
J OPHTH	BRITISH JOURNAL OF OPHTHALMOLOGY
J PHARM	BRITISH JOURNAL OF PHARMACOLOGY
J PHYS O	BRITISH JOURNAL OF PHYSIOLOGICAL OPTICS
J PREV S	BRITISH JOURNAL OF PREVENTIVE AND SOCIAL MEDICINE
J PSYCHI	BRITISH JOURNAL OF PSYCHIATRY
J PSYCHO	BRITISH JOURNAL OF PSYCHOLOGY
J RADIOL	BRITISH JOURNAL OF RADIOLOGY
J SOCIAL	BRITISH JOURNAL OF SOCIAL AND CLINICAL PSYCHOLOGY
J SURG	BRITISH JOURNAL OF SURGERY
J VEN DI	BRITISH JOURNAL OF VENEREAL DISEASES
MED B	BRITISH MEDICAL BULLETIN
MED J	BRITISH MEDICAL JOURNAL
PLAST	BRITISH PLASTICS
POULT SC	BRITISH POULTRY SCIENCE
VET J	BRITISH VETERINARY JOURNAL
N	BRAIN
N BEHAV	BRAIN, BEHAVIOR AND EVOLUTION
N RES	BRAIN RESEARCH
NN WARME	BRENNSTOFF-WARME-KRAFT
TONIA	BRITTONIA
OK S BIO	BROOKHAVEN SYMPOSIA IN BIOLOGY
WN BOV R	BROWN BOVERI REVIEW
NIN MEDD	BYGNINGSSTATISKE MEDDELELSER
BIO MAR	CAHIERS DE BIOLOGIE MARINE
ORST HY	CAHIERS ORSTOM HYDROBIOLOGIE
ORST OC	CAHIERS ORSTOM OCEANOGRAPHIE
S STAT A	CALCUTTA STATISTICAL ASSOCIATION BULLETIN
CIF TISS	CALCIFIED TISSUE RESEARCH
F AGR	CALIFORNIA AGRICULTURE
F FISH	CALIFORNIA FISH AND GAME
F MED	CALIFORNIA MEDICINE
AER SPA	CANADIAN AERONAUTICS AND SPACE JOURNAL
ANAE SJ	CANADIAN ANAESTHETISTS SOCIETY JOURNAL
ENTOMOL	CANADIAN ENTOMOLOGIST
FARM EC	CANADIAN FARM ECONOMICS
I FOOD	CANADIAN INSTITUTE OF FOOD TECHNOLOGY JOURNAL
J ANIM	CANADIAN JOURNAL OF ANIMAL SCIENCE
J BEH S	CANADIAN JOURNAL OF BEHAVIOURAL SCIENCE
J BIOCH	CANADIAN JOURNAL OF BIOCHEMISTRY
J BOTAN	CANADIAN JOURNAL OF BOTANY
J CH EN	CANADIAN JOURNAL OF CHEMICAL ENGINEERING
J CHEM	CANADIAN JOURNAL OF CHEMISTRY
J COM M	CANADIAN JOURNAL OF COMPARATIVE MEDICINE
J EARTH	CANADIAN JOURNAL OF EARTH SCIENCES
J GENET	CANADIAN JOURNAL OF GENETICS AND CYTOLOGY
J MATH	CANADIAN JOURNAL OF MATHEMATICS
J MED T	CANADIAN JOURNAL OF MEDICAL TECHNOLOGY
J MICRO	CANADIAN JOURNAL OF MICROBIOLOGY
J OPHTH	CANADIAN JOURNAL OF OPHTHALMOLOGY
J PH SC	CANADIAN JOURNAL OF PHARMACEUTICAL SCIENCES
J PHYS	CANADIAN JOURNAL OF PHYSICS
J PHYSL	CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY
J PLANT	CANADIAN JOURNAL OF PLANT SCIENCE
J PSYCH	CANADIAN JOURNAL OF PSYCHOLOGY
J SOIL	CANADIAN JOURNAL OF SOIL SCIENCE
J SPECT	CANADIAN JOURNAL OF SPECTROSCOPY

CAN J SURG	CANADIAN JOURNAL OF SURGERY
CAN J ZOOL	CANADIAN JOURNAL OF ZOOLOGY
CAN MATH B	CANADIAN MATHEMATICAL BULLETIN
CAN MED A J	CANADIAN MEDICAL ASSOCIATION JOURNAL
CAN METAL Q	CANADIAN METALLURGICAL QUARTERLY
CAN MIN MET	CANADIAN MINING AND METALLURGICAL BULLETIN
CAN PSYCHOL	CANADIAN PSYCHOLOGIST. PSYCHOLOGIE CANADIENNE
CAN R SOC A	CANADIAN REVIEW OF SOCIOLOGY AND ANTHROPOLOGY
CAN VET J	CANADIAN VETERINARY JOURNAL
CANC CH P1	CANCER CHEMOTHERAPY REPORTS. PART 1
CANC CH P2	CANCER CHEMOTHERAPY REPORTS. PART 2
CANC CH P3	CANCER CHEMOTHERAPY REPORTS. PART 3
CANCER	CANCER
CANCER RES	CANCER RESEARCH
CARBOHY RES	CARBOHYDRATE RESEARCH
CARBON	CARBON
CARDIO RES	CARDIOVASCULAR RESEARCH
CARDIOLOGY	CARDIOLOGY
CARIES RES	CARIES RESEARCH
CARYOLOGIA	CARYOLOGIA
CASI TRANS	C.A.S.I. TRANSACTIONS
CATAL REV	CATALYSIS REVIEWS
CELL IMMUN	CELLULAR IMMUNOLOGY
CELL TISS K	CELL AND TISSUE KINETICS
CERAM AGE	CERAMIC AGE
CERAMICS	CERAMICS
CEREAL CHEM	CEREAL CHEMISTRY
CEREAL SCI	CEREAL SCIENCE TODAY
CESK C FYS	CESKOSLOVENSKY CASOPIS PRO FYSIKU SECTION A
CHEM BER	CHEMISCHE BERICHTE
CHEM BRIT	CHEMISTRY IN BRITAIN
CHEM ENG	CHEMICAL ENGINEERING
CHEM ENG L	CHEMICAL ENGINEER
CHEM ENG N	CHEMICAL AND ENGINEERING NEWS
CHEM ENG PR	CHEMICAL ENGINEERING PROGRESS
CHEM ENG SC	CHEMICAL ENGINEERING SCIENCE
CHEM GEOL	CHEMICAL GEOLOGY
CHEM H POLY	CHEMISTRY OF HIGH POLYMERS
CHEM IND L	CHEMISTRY AND INDUSTRY, LONDON
CHEM INSTR	CHEMICAL INSTRUMENTATION
CHEM LETT	CHEMISTRY LETTERS
CHEM LISTY	CHEMICKE LISTY
CHEM NZ	CHEMISTRY IN NEW ZEALAND
CHEM P LETT	CHEMICAL PHYSICS LETTERS
CHEM PHARM	CHEMICAL AND PHARMACEUTICAL BULLETIN
CHEM PHYS L	CHEMISTRY AND PHYSICS OF LIPIDS
CHEM PR ENG	CHEMICAL AND PROCESS ENGINEERING
CHEM REV	CHEMICAL REVIEWS
CHEM SCR	CHEMICA SCRIPTA
CHEM SOC RE	CHEMICAL SOCIETY REVIEWS
CHEM TECH	CHEMISCHE TECHNIK
CHEM ZEITUN	CHEMIKER-ZEITUNG
CHEM ZVESTI	CHEMICKE ZVESTI
CHEM-BIO IN	CHEMICO-BIOLOGICAL INTERACTIONS
CHEM-ING-T	CHEMIE-INGENIEUR-TECHNIK
CHEMOTHERA	CHEMOTHERAPY
CHEMTECH US	CHEMICAL TECHNOLOGY
CHEST	CHEST
CHILD DEV	CHILD DEVELOPMENT
CHIM ANAL	CHIMIE ANALYTIQUE
CHIM IND GC	CHIMIE AND INDUSTRIE GENIE CHIMIQUE
CHIM IND M	CHIMICA E L INDUSTRIA, MILAN
CHIM THER	CHIMICA THERAPEUTICA
CHIMIA	CHIMIA
CHIR PLAST	CHIRURGIA PLASTICA
CHIRURG	CHIRURG
CHROMOSOMA	CHROMOSOMA
CIRCUL RES	CIRCULATION RESEARCH
CIRCULATION	CIRCULATION
CIVIL ENG	CIVIL ENGINEERING
CLAY CLAY M	CLAYS AND CLAY MINERALS
CLIN BIOCH	CLINICAL BIOCHEMISTRY
CLIN CHEM	CLINICAL CHEMISTRY
CLIN CHIM A	CLINICA CHIMICA ACTA
CLIN EXP IM	CLINICAL AND EXPERIMENTAL IMMUNOLOGY
CLIN GENET	CLINICAL GENETICS
CLIN MED	CLINICAL MEDICINE
CLIN ORTHOP	CLINICAL ORTHOPAEDICS AND RELATED RESEARCH
CLIN PEDIAT	CLINICAL PEDIATRICS
CLIN PHARM	CLINICAL PHARMACOLOGY AND THERAPEUTICS
CLIN SCI	CLINICAL SCIENCE
CLIN TOXIC	CLINICAL TOXICOLOGY
COEUR MED I	COEUR ET MEDECINE INTERNE
COKE CHEM R	COKE AND CHEMISTRY, USSR
COLD S HARB	COLD SPRING HARBOR SYMPOSIA ON QUANTITATIVE BIOLOGY

COLL CZECH	COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS
COLL MATH	COLLOQUIUM MATHEMATICUM
COLL RES LI	COLLEGE AND RESEARCH LIBRARIES
COLLOID J R	COLLOID JOURNAL, USSR
COM FOR REV	COMMONWEALTH FORESTRY REVIEW
COM PA MATH	COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS
COMB EXPL R	COMBUSTION, EXPLOSION, AND SHOCK WAVES
COMB FLAME	COMBUSTION AND FLAME
COMB SCI T	COMBUSTION SCIENCE AND TECHNOLOGY
COMBUSTION	COMBUSTION
COMM ACM	COMMUNICATIONS OF THE ACM
COMM MATH H	COMMENTARII MATHEMATICI HELVETICI
COMM MATH P	COMMUNICATIONS IN MATHEMATICAL PHYSICS
COMM MENT H	COMMUNITY MENTAL HEALTH JOURNAL
COMMER FISH	COMMERCIAL FISHERIES REVIEW
COMP BIOCH	COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY
COMP GEN PH	COMPARATIVE AND GENERAL PHARMACOLOGY
COMP MATH	COMPOSITIO MATHEMATICA
COMP PSYCHI	COMPREHENSIVE PSYCHIATRY
COMPRES AIR	COMPRESSED AIR
COMPUT BIOM	COMPUTERS AND BIOMEDICAL RESEARCH
COMPUTER	COMPUTER
COMPUTER AU	COMPUTERS AND AUTOMATION
COMPUTER B	COMPUTER BULLETIN
COMPUTER HU	COMPUTERS AND THE HUMANITIES
COMPUTER J	COMPUTER JOURNAL
COMPUTER PH	COMPUTER PHYSICS COMMUNICATIONS
COMPUTING	COMPUTING
CONCRETE	CONCRETE
CONCRETE Q	CONCRETE QUARTERLY
CONDOR	CONDOR
CONF NEUROL	CONFINIA NEUROLOGICA
CONF PSYCH	CONFINIA PSYCHIATRICA
CONT PHYS	CONTEMPORARY PHYSICS
CONTR INSTR	CONTROL AND INSTRUMENTATION
CONTR MAR S	CONTRIBUTIONS IN MARINE SCIENCE
CONTR MIN P	CONTRIBUTIONS TO MINERALOGY AND PETROLOGY
CONTRACEPT	CONTRACEPTION
CONTROL ENG	CONTROL ENGINEERING
COORD CH RE	COORDINATION CHEMISTRY REVIEWS
COPEIA	COPEIA
CORNELL VET	CORNELL VETERINARIAN
CORROS SCI	CORROSION SCIENCE
CORROS TRAI	CORROSION TRAITEMENTS PROTECTION FINITION
CORROSION	CORROSION
COST ENG	COST ENGINEERING
CR AC SCI A CR AC SCI B	COMPTES RENDUS HEBDOMADAIRES DES SEANCES DE L ACADEMIE DES SCIENCES. SERIES A ET B. SCIENCES MATHEMATIQUES. SCIENCES PHYSIQUES
CR AC SCI C	COMPTES RENDUS HEBDOMADAIRES DES SEANCES DE L ACADEMIE DES SCIENCES. SERIE C. SCIENCES CHIMIQUES
CR AC SCI D	COMPTES RENDUS HEBDOMADAIRES DES SEANCES DE L ACADEMIE DES SCIENCES. SERIE D. SCIENCES NATURELLES
CR SOC BIOL	COMPTES RENDUS DES SEANCES DE LA SOCIETE DE BIOLOGIE ET DE SES FILIALES
CR SOC PHYS	COMPTE RENDU DES SEANCES DE LA SOCIETE DE PHYSIQUE ET D HISTOIRE NATURELLE DE GENEVE
CR TR LAB C	COMPTES RENDUS DES TRAVAUX DU LABORATOIRE CARLSBERG
CROAT CHEM	CROATICA CHEMICA ACTA
CROP SCI	CROP SCIENCE
CROPS SOILS	CROPS AND SOILS MAGAZINE
CRYOBIOLOGY	CRYOBIOLOGY
CRYOGENICS	CRYOGENICS
CURR ANTHR	CURRENT ANTHROPOLOGY
CURR CONTEN	CURRENT CONTENTS-LIFE SCIENCES
CURR THER R	CURRENT THERAPEUTIC RESEARCH, CLINICAL AND EXPERIMENTAL
CURRENT SCI	CURRENT SCIENCE
CUT TOOL EN	CUTTING TOOL ENGINEERING
CYBERNETICA	CYBERNETICA
CYTOBIOLOG	CYTOBIOLOGIE
CYTOBIOS	CYTOBIOS
CYTOGENET	CYTOGENETICS
CYTOLOGIA	CYTOLOGIA
CZEC J PHYS	CZECHOSLOVAK JOURNAL OF PHYSICS SECTION B
CZEC MATH J	CZECHOSLOVAK MATHEMATICAL JOURNAL
DAIRY IND	DAIRY INDUSTRIES
DAN BOLG	DOKLADY BOLGARSKOI AKADEMII NAUK
DAN BSSR	DOKLADY AKADEMII NAUK BSSR
DAN MED B	DANISH MEDICAL BULLETIN
DAN SSSR	DOKLADY AKADEMII NAUK SSSR
DANSK BOTAN	DANSK BOTANISK ARKIV
DATA PROC M	DATA PROCESSING MAGAZINE
DATA PROCES	DATA PROCESSING
DATAMATION	DATAMATION
DEEP-SEA RE	DEEP-SEA RESEARCH
DEMOGRAPHY	DEMOGRAPHY

DENKI KAG	DENKI KAGAKU
DENT CLIN N	DENTAL CLINICS OF NORTH AMERICA
DENT PRACT	DENTAL PRACTITIONER AND DENTAL RECORD
DERMATOLOG	DERMATOLOGICA
DESALINATN	DESALINATION
DESIGN NEWS	DESIGN NEWS
DEUT MED WO	DEUTSCHE MEDIZINISCHE WOCHENSCHRIFT
DEVELOP BIO	DEVELOPMENTAL BIOLOGY
DEVELOP GR	DEVELOPMENT GROWTH AND DIFFERENTIATION
DEVELOP MED	DEVELOPMENTAL MEDICINE AND CHILD NEUROLOGY
DEVELOP PSY	DEVELOPMENTAL PSYCHOBIOLOGY
DIABETES	DIABETES
DIABETOLOG	DIABETOLOGIA
DIGESTION	DIGESTION
DIS COL REC	DISEASES OF THE COLON AND RECTUM
DIS NER SYS	DISEASES OF THE NERVOUS SYSTEM, AND SUPPLEMENT
DISC FARAD	DISCUSSIONS OF THE FARADAY SOCIETY
DISS PHARM	DISSERTATIONES PHARMACEUTICAE ET PHARMACOLOGICAE
DOC OPHTHAL	DOCUMENTA OPHTHALMOLOGICA
DOCK HARB A	DOCK AND HARBOUR AUTHORITY
DOP UKR A	DOPOVIDI AKADEMII NAUK UKRAINSKOI RSR
DRUG COSMET	DRUG AND COSMETIC INDUSTRY
DRUG INTEL	DRUG INTELLIGENCE AND CLINICAL PHARMACY
DRUGS	DRUGS
DUKE MATH J	DUKE MATHEMATICAL JOURNAL
EARTH PLAN	EARTH AND PLANETARY SCIENCE LETTERS
EARTH SCI R	EARTH SCIENCE REVIEWS
ECOL MONOGR	ECOLOGICAL MONOGRAPHS
ECOLOGY	ECOLOGY
ECON BOTAN	ECONOMIC BOTANY
ECON GEOL	ECONOMIC GEOLOGY AND THE BULLETIN OF THE SOCIETY OF ECONOMIC GEOLOGISTS
ECONOMETRIC	ECONOMETRICA
EDUC PERSPE	EDUCATIONAL PERSPECTIVES
EDUC PSYC M	EDUCATIONAL AND PSYCHOLOGICAL MEASUREMENT
EDUC REV	EDUCATIONAL REVIEW
EEG CL NEUR	ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY
EEI B	EEI BULLETIN
EFF WAT TRE	EFFLUENT AND WATER TREATMENT JOURNAL
ELEC COMMUN	ELECTRICAL COMMUNICATION
ELEC EN JAP	ELECTRICAL ENGINEERING IN JAPAN
ELEC REV	ELECTRICAL REVIEW
ELEC TECH R	ELECTRIC TECHNOLOGY, USSR
ELECTR ACT	ELECTROCHIMICA ACTA
ELECTR CO J	ELECTRONICS AND COMMUNICATIONS IN JAPAN
ELECTR ENG	ELECTRONIC ENGINEERING
ELECTR ENGR	ELECTRONIC ENGINEER
ELECTR LETT	ELECTRONICS LETTERS
ELECTR POW	ELECTRONICS AND POWER
ELECTR PROD	ELECTRONIC PRODUCTS MAGAZINE
ELECTRONICS	ELECTRONICS
ELEKTR Z B	ELEKTROTECHNISCHE ZEITSCHRIFT. AUSGABE B
ELETTROTECN	ELETTROTECNICA
ENDEAVOUR	ENDEAVOUR
ENDOCR JAP	ENDOCRINOLOGIA JAPONICA
ENDOCRINOL	ENDOCRINOLOGY
ENDOKRINOL	ENDOKRINOLOGIE
ENDOSCOPY	ENDOSCOPY
ENERGIA ATOM	ENERGIA ES ATOMTECHNIKA
ENERGIA NU M	ENERGIA NUCLEAR, MADRID
ENERGIA NUCL	ENERGIA NUCLEARE
ENERGIE NUCL	ENERGIE NUCLEAIRE
ENERGY CONV	ENERGY CONVERSION
ENG CYBER R	ENGINEERING CYBERNETICS, USSR
ENG EDUC	ENGINEERING EDUCATION
ENG GEOL	ENGINEERING GEOLOGY
ENG J	ENGINEERING JOURNAL, NEW YORK
ENG MAT DES	ENGINEERING MATERIALS AND DESIGN
ENGINEERING	ENGINEERING
ENT EXP APP	ENTOMOLOGIA EXPERIMENTALIS ET APPLICATA
ENV SCI TEC	ENVIRONMENTAL SCIENCE AND TECHNOLOGY
ENVIR LETT	ENVIRONMENTAL LETTERS
ENVIR RES	ENVIRONMENTAL RESEARCH
ENVIR SP R	ENVIRONMENTAL SPACE SCIENCES, USSR
ENVIRONMENT	ENVIRONMENT
ENZYME	ENZYME
ENZYMOLOGIA	ENZYMOLOGIA
EPILEPSIA	EPILEPSIA AND SUPPLEMENT
ERD KOH EPB	ERDOL UND KOHLE ERDGAS PETROCHEMIE VEREINIGT MIT BRENNSTOFF-CHEMIE
ERGEB PHYSI	ERGEBNISSE DER PHYSIOLOGIE BIOLOGISCHEN CHEMIE UND EXPERIMENTELLEN PHARMAKOLOGIE
ERGONOMICS	ERGONOMICS
ERICSSON RE	ERICSSON REVIEW

ERICSSON TE	ERICSSON TECHNICS
ETHNOLOGY	ETHNOLOGY
EUPHYTICA	EUPHYTICA
EUR J BIOCH	EUROPEAN JOURNAL OF BIOCHEMISTRY
EUR J CANC	EUROPEAN JOURNAL OF CANCER
EUR J CL IN	EUROPEAN JOURNAL OF CLINICAL INVESTIGATION
EUR J CL PH	EUROPEAN JOURNAL OF CLINICAL PHARMACOLOGY
EUR J IMMUN	EUROPEAN JOURNAL OF IMMUNOLOGY
EUR J PHARM	EUROPEAN JOURNAL OF PHARMACOLOGY
EUR NEUROL	EUROPEAN NEUROLOGY
EUR POLYM J	EUROPEAN POLYMER JOURNAL
EUR SURG RE	EUROPEAN SURGICAL RESEARCH
EURO SPECTR	EURO SPECTRA
EUROPLAST M	EUROPLASTICS MONTHLY
EVOLUTION	EVOLUTION
EXP AGRICUL	EXPERIMENTAL AGRICULTURE
EXP BRAIN R	EXPERIMENTAL BRAIN RESEARCH
EXP CELL RE	EXPERIMENTAL CELL RESEARCH
EXP EYE RES	EXPERIMENTAL EYE RESEARCH
EXP GERONT	EXPERIMENTAL GERONTOLOGY
EXP MECH	EXPERIMENTAL MECHANICS
EXP MED SUR	EXPERIMENTAL MEDICINE AND SURGERY
EXP MOL PAT	EXPERIMENTAL AND MOLECULAR PATHOLOGY
EXP NEUROL	EXPERIMENTAL NEUROLOGY
EXP PARASIT	EXPERIMENTAL PARASITOLOGY
EXP PATH	EXPERIMENTELLE PATHOLOGIE
EXPERIENTIA	EXPERIENTIA
EYE EAR NOS	EYE, EAR, NOSE AND THROAT MONTHLY
F CHEM ORG	FORTSCHRITTE DER CHEMIE ORGANISCHER NATURSTOFFE
F NEUR PSYC	FORTSCHRITTE DER NEUROLOGIE UND PSYCHIATRIE UND IHRER GRENZGEBIETE
F ROENT NUK	FORTSCHRITTE AUF DEM GEBIETE DER RONTGENSTRAHLEN UND DER NUKLEARMEDIZIN
FAO PLANT	FAO PLANT PROTECTION BULLETIN
FARM CHEM	FARM CHEMICALS AND CROPLIFE
FARM Q	FARM QUARTERLY
FARMACO PRA	FARMACO. EDIZIONE PRATICA
FARMACO SCI	FARMACO. EDIZIONE SCIENTIFICA
FARMAKOL T	FARMAKOLOGIYA I TOKSIKOLOGIYA
FDA PAPERS	FDA PAPERS
FEBS LETTER	FEBS LETTERS
FED PROC	FEDERATION PROCEEDINGS
FEEDSTUFFS	FEEDSTUFFS
FERROELECTR	FERROELECTRICS
FERT STERIL	FERTILITY AND STERILITY
FET SEI ANS	FETTE, SEIFEN, ANSTRICHMITTEL VERBUNDEN MIT DER ZEITSCHRIFT DIE ERNAHRUNGSINDUSTRIE
FIN KEM MED	FINSKA KEMISTSAMFUNDETS MEDDELANDEN
FINAN EXEC	FINANCIAL EXECUTIVE
FISH B	FISHERY BULLETIN OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
FIZ METAL M	FIZIKA METALLOV I METALLOVEDENIE
FIZ TVERD T	FIZIKA TVERDOGO TELA
FLORA	FLORA
FLUORIDE	FLUORIDE OFFICIAL QUARTERLY JOURNAL OF INTERNATIONAL SOCIETY FOR FLUORIDE RESEARCH
FOL BIOL	FOLIA BIOLOGICA
FOL MICROB	FOLIA MICROBIOLOGICA
FOL PRIMAT	FOLIA PRIMATOLOGICA
FONDERIE FR	FONDERIE, FRANCE
FOOD COSMET	FOOD AND COSMETICS TOXICOLOGY
FOOD ENG	FOOD ENGINEERING
FOOD MANUF	FOOD MANUFACTURE
FOOD TECHN	FOOD TECHNOLOGY
FOREIGN AGR	FOREIGN AGRICULTURE
FOREST CHRO	FORESTRY CHRONICLE
FOREST SCI	FOREST SCIENCE
FORESTRY	FORESTRY
FORTSCHR PH	FORTSCHRITTE DER PHYSIK
FOUND LANG	FOUNDATIONS OF LANGUAGE
FRONT LIBR	FRONTIERS OF LIBRARIANSHIP SYRACUSE UNIVERSITY
FUEL	FUEL
FUTURES	FUTURES
GANN	GANN
GARDEN J	GARDEN JOURNAL
GASTROENTY	GASTROENTEROLOGY
GAZ CHIM IT	GAZZETTA CHIMICA ITALIANA
GEN C ENDOC	GENERAL AND COMPARATIVE ENDOCRINOLOGY
GEN SYST	GENERAL SYSTEMS
GENET IBER	GENETICA IBERICA
GENET POL	GENETICA POLONICA
GENET PSYCH	GENETIC PSYCHOLOGY MONOGRAPHS
GENET RES	GENETICAL RESEARCH
GENETICA	GENETICA
GENETICS	GENETICS
GENETIKA	GENETIKA
GEOCH COS A	GEOCHIMICA ET COSMOCHIMICA ACTA
GEOCH INT R	GEOCHEMISTRY INTERNATIONAL, USSR
GEODERMA	GEODERMA
GEOEXPLOR	GEOEXPLORATION
GEOFIS MET	GEOFISICA E METEOROLOGIA
GEOGR J	GEOGRAPHICAL JOURNAL
GEOKHIMIYA	GEOKHIMIYA
GEOL MAG	GEOLOGICAL MAGAZINE
GEOL S AM B	GEOLOGICAL SOCIETY OF AMERICA BULLETIN
GEOPHYS J R	GEOPHYSICAL JOURNAL OF THE ROYAL ASTRONOMICAL SOCIETY
GEOPHYSICS	GEOPHYSICS
GEOTECHNIQ	GEOTECHNIQUE
GERIATRICS	GERIATRICS
GERONT CLIN	GERONTOLOGIA CLINICA
GERONTOL	GERONTOLOGIST
GERONTOLOG	GERONTOLOGIA
GIOR GERONT	GIORNALE DI GERONTOLOGIA
GIOR MICROB	GIORNALE DI MICROBIOLOGIA
GL BEE CULT	GLEANINGS IN BEE CULTURE
GLAS MATH J	GLASGOW MATHEMATICAL JOURNAL
GLASS TECH	GLASS TECHNOLOGY
GROUND WAT	GROUND WATER AGE
GROWTH	GROWTH
GUT	GUT
GYNAKOLOGE	GYNAKOLOGE
GYNECOL INV	GYNECOLOGIC INVESTIGATIO
H-S Z PHYSL	HOPPE-SEYLERS ZEITSCHRIFT FUR PHYSIOLOGISCHE CHEMIE
HARV BUS RE	HARVARD BUSINESS REVIEW
HAUTARZT	HAUTARZT
HEADACHE	HEADACHE
HEALTH LAB	HEALTH LABORATORY SCIENCE
HEALTH PHYS	HEALTH PHYSICS
HEALTH SERV	HEALTH SERVICES REPORT
HELG W MEER	HELGOLANDER WISSENSCHAFTLICHE MEERESUNTERSUCHUNGEN
HELV CHIM A	HELVETICA CHIMICA ACTA
HELV CHIR A	HELVETICA CHIRURGICA ACTA
HELV MED A	HELVETICA MEDICA ACTA
HELV ODON A	HELVETICA ODONTOLOGICA ACTA
HELV PAED A	HELVETICA PAEDIATRICA ACTA
HELV PHYS A	HELVETICA PHYSICA ACTA
HEREDITAS	HEREDITAS, GENETISKT ARKIV
HEREDITY	HEREDITY
HERZ KREISL	HERZ KREISLAUF
HIGH TEMP R	HIGH TEMPERATURE, USSR
HIGH TEMP S	HIGH TEMPERATURE SCIENCE
HILGARDIA	HILGARDIA
HIROS J MED	HIROSHIMA JOURNAL OF MEDICAL SCIENCES
HISTOCHEM J	HISTOCHEMICAL JOURNAL
HISTOCHEMIE	HISTOCHEMIE
HNO WEG FAC	HNO, WEGWEISER FUR DIE FACHARZTLICHE PRAXIS
HOLZ ROH WE	HOLZ ALS ROH- UND WERKSTOFF
HOLZF HOLZV	HOLZFORSCHUNG UND HOLZVERWERTUNG
HOLZFORSCH	HOLZFORSCHUNG
HORMONE BEH	HORMONES AND BEHAVIOR
HORMONE MET	HORMONE AND METABOLIC RESEARCH
HORMONES	HORMONES
HORT RES	HORTICULTURAL RESEARCH
HORTICULT	HORTICULTURE
HSMHA H REP	HSMHA HEALTH REPORTS
HUMAN BIOL	HUMAN BIOLOGY
HUMAN DEV	HUMAN DEVELOPMENT
HUMAN FACT	HUMAN FACTORS
HUMAN HERED	HUMAN HEREDITY
HUMAN PATH	HUMAN PATHOLOGY
HUMAN RELAT	HUMAN RELATIONS
HUMANGENET	HUMANGENETIK
HYDRA PNEUM	HYDRAULICS AND PNEUMATICS
HYDROBIOL	HYDROBIOLOGIA
HYDROC PROC	HYDROCARBON PROCESSING
I J AGR SCI	INDIAN JOURNAL OF AGRICULTURAL SCIENCES
I J BIOCH B	INDIAN JOURNAL OF BIOCHEMISTRY AND BIOPHYSICS
I J CHEM	INDIAN JOURNAL OF CHEMISTRY
I J EX BIOL	INDIAN JOURNAL OF EXPERIMENTAL BIOLOGY
I J GENET P	INDIAN JOURNAL OF GENETICS AND PLANT BREEDING
I J MED RES	INDIAN JOURNAL OF MEDICAL RESEARCH
I J NUTR D	INDIAN JOURNAL OF NUTRITION AND DIETETICS
I J PA PHYS	INDIAN JOURNAL OF PURE AND APPLIED PHYSICS
I J PHYSICS	INDIAN JOURNAL OF PHYSICS AND PROCEEDINGS OF THE INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
I J PSYCHOL	INDIAN JOURNAL OF PSYCHOLOGY
I J TECHN	INDIAN JOURNAL OF TECHNOLOGY
I J THEOR P	INDIAN JOURNAL OF THEORETICAL PHYSICS
IAN SSS BIO	IZVESTIYA AKADEMII NAUK SSSR SERIYA BIOLOGICHESKAYA
IAN SSS FAO	IZVESTIYA AKADEMII NAUK SSSR. FIZIKA ATMOSFERY I OKEANA
IAN SSS FIZ	IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA
IAN SSS KH	IZVESTIYA AKADEMII NAUK SSSR SERIYA KHIMICHESKAYA
IBIS	IBIS
IBM J RES	IBM JOURNAL OF RESEARCH AND DEVELOPMENT
IBM SYST J	IBM SYSTEMS JOURNAL
ICARUS	ICARUS
IEEE AER EL	IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS
IEEE ANTENN	IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION
IEEE AUDIO	IEEE TRANSACTIONS ON AUDIO AND ELECTROACOUSTICS
IEEE AUTO C	IEEE TRANSACTIONS ON AUTOMATIC CONTROL
IEEE B TELE	IEEE TRANSACTIONS ON BROADCAST AND TELEVISION RECEIVERS
IEEE BIOMED	IEEE TRANSACTIONS ON BIO-MEDICAL ENGINEERING
IEEE BROADC	IEEE TRANSACTIONS ON BROADCASTING
IEEE C TECH	IEEE TRANSACTIONS ON COMMUNICATION TECHNOLOGY
IEEE CIRC T	IEEE TRANSACTIONS ON CIRCUIT THEORY
IEEE COMMUN	IEEE TRANSACTIONS ON COMMUNICATIONS
IEEE COMPUT	IEEE TRANSACTIONS ON COMPUTERS
IEEE DEVICE	IEEE TRANSACTIONS ON ELECTRON DEVICES
IEEE EDUCAT	IEEE TRANSACTIONS ON EDUCATION
IEEE EL INS	IEEE TRANSACTIONS ON ELECTRICAL INSULATION
IEEE ELM CS	IEEE ELECTROMAGNETIC COMPATIBILITY SYMPOSIUM RECORD
IEEE ELMAGN	IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBILITY
IEEE GEOSCI	IEEE TRANSACTIONS ON GEOSCIENCE ELECTRONICS
IEEE IND AP	IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS
IEEE IND EL	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS AND CONTROL INSTRUMENTATION
IEEE INFO T	IEEE TRANSACTIONS ON INFORMATION THEORY
IEEE INSTR	IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT
IEEE J Q EL	IEEE JOURNAL OF QUANTUM ELECTRONICS
IEEE J SOLI	IEEE JOURNAL OF SOLID-STATE CIRCUITS
IEEE MAGNET	IEEE TRANSACTIONS ON MAGNETICS
IEEE MANAGE	IEEE TRANSACTIONS ON ENGINEERING MANAGEMENT
IEEE MICR T	IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES
IEEE NUCL S	IEEE TRANSACTIONS ON NUCLEAR SCIENCE
IEEE PARTS	IEEE TRANSACTIONS ON PARTS, HYBRIDS AND PACKAGING
IEEE POWER	IEEE TRANSACTIONS ON POWER APPARATUS AND SYSTEMS
IEEE PROF C	IEEE TRANSACTIONS ON PROFESSIONAL COMMUNICATION
IEEE RELIAB	IEEE TRANSACTIONS ON RELIABILITY
IEEE SON UL	IEEE TRANSACTIONS ON SONICS AND ULTRASONICS
IEEE SPECTR	IEEE SPECTRUM
IEEE SYST M	IEEE TRANSACTIONS ON SYSTEMS, MAN AND CYBERNETICS
IEEE VEH T	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY
IEEE VEH TG	IEEE VEHICULAR TECHNOLOGY GROUP. ANNUAL CONFERENCE
IIRB	IIRB
ILL J MATH	ILLINOIS JOURNAL OF MATHEMATICS
IMMUNOCHEM	IMMUNOCHEMISTRY
IMMUNOL COM	IMMUNOLOGICAL COMMUNICATIONS
IMMUNOLOGY	IMMUNOLOGY
IMPACT SCI	IMPACT OF SCIENCE ON SOCIETY
IN VITRO	IN VITRO. JOURNAL OF THE TISSUE CULTURE ASSOCIATION
IND CHIM BE	INDUSTRIE CHIMIQUE BELGE-BELGISCHE CHEMISCHE INDUSTRIE
IND DIAM RE	INDUSTRIAL DIAMOND REVIEW
IND ENG	INDUSTRIAL ENGINEERING
IND ENG F	INDUSTRIAL AND ENGINEERING CHEMISTRY FUNDAMENTALS
IND ENG PDD	INDUSTRIAL AND ENGINEERING CHEMISTRY PROCESS DESIGN AND DEVELOPMENT
IND ENG PRD	INDUSTRIAL AND ENGINEERING CHEMISTRY PRODUCT RESEARCH AND DEVELOPMENT
IND FINISH	INDUSTRIAL FINISHING
IND LAB R	INDUSTRIAL LABORATORY, USSR
IND LUB TRI	INDUSTRIAL LUBRICATION AND TRIBOLOGY
IND MED SUR	INDUSTRIAL MEDICINE AND SURGERY
IND PHOTOGR	INDUSTRIAL PHOTOGRAPHY
IND RES	INDUSTRIAL RESEARCH
INDI MATH J	INDIANA UNIVERSITY MATHEMATICS JOURNAL
INF CONTR	INFORMATION AND CONTROL
INF DISPLAY	INFORMATION DISPLAY JOURNAL OF THE SOCIETY FOR INFORMATION DISPLAY
INF SCI	INFORMATION SCIENCES
INF SCIENT	INFORMATION SCIENTIST
INF STORAGE	INFORMATION STORAGE AND RETRIEVAL
INFEC IMMUN	INFECTION AND IMMUNITY
INFRAR PHYS	INFRARED PHYSICS
ING ARCH	INGENIEUR-ARCHIV
ING CHIM IT	QUADERNI DELL INGEGNERE CHIMICO
INJURY	INJURY. THE BRITISH JOURNAL OF ACCIDENT SURGERY
INORG CHEM	INORGANIC CHEMISTRY
INORG NUCL	INORGANIC AND NUCLEAR CHEMISTRY LETTERS
INSECT BIOC	INSECT BIOCHEMISTRY
INSECT SOC	INSECTES SOCIAUX
INSTR CONTR	INSTRUMENTS AND CONTROL SYSTEMS
INSTR EXP R	INSTRUMENTS AND EXPERIMENTAL TECHNIQUES, USSR
INSTR PRACT	INSTRUMENT PRACTICE
INSTR TECH	INSTRUMENTATION TECHNOLOGY
INSTRUMENT	INSTRUMENTATION
INT A ALLER	INTERNATIONAL ARCHIVES OF ALLERGY AND APPLIED IMMUNOLOGY
INT A ARB	INTERNATIONALES ARCHIV FUR ARBEITSMEDIZIN
INT BIOD B	INTERNATIONAL BIODETERIORATION BULLETIN
INT CHEM EN	INTERNATIONAL CHEMICAL ENGINEERING
INT DENT J	INTERNATIONAL DENTAL JOURNAL
INT ELEKTR	INTERNATIONALE ELEKTRONISCHE RUNDSCHAU
INT HYD REV	INTERNATIONAL HYDROGRAPHIC REVIEW
INT J A AFF	INTERNATIONAL JOURNAL OF AGRARIAN AFFAIRS
INT J A RAD	INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPES
INT J ADDIC	INTERNATIONAL JOURNAL OF THE ADDICTIONS
INT J BIOCH	INTERNATIONAL JOURNAL OF BIOCHEMISTRY
INT J CANC	INTERNATIONAL JOURNAL OF CANCER
INT J CE HY	INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL HYPNOSIS
INT J CL PH	INTERNATIONAL JOURNAL OF CLINICAL PHARMACOLOGY, THERAPY AND TOXICOLOGY
INT J COM M	INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS
INT J CONTR	INTERNATIONAL JOURNAL OF CONTROL
INT J EL EN	INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING EDUCATION
INT J ELECT	INTERNATIONAL JOURNAL OF ELECTRONICS
INT J ENG S	INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE
INT J FERT	INTERNATIONAL JOURNAL OF FERTILITY
INT J FRACT	INTERNATIONAL JOURNAL OF FRACTURE MECHANICS
INT J GRP P	INTERNATIONAL JOURNAL OF GROUP PSYCHOTHERAPY
INT J HEAT	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER
INT J MACH	INTERNATIONAL JOURNAL OF MACHINE TOOL DESIGN AND RESEARCH
INT J MECH	INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES
INT J NEURO	INTERNATIONAL JOURNAL OF NEUROLOGY
INT J NEURS	INTERNATIONAL JOURNAL OF NEUROSCIENCE
INT J PEPT	INTERNATIONAL JOURNAL OF PEPTIDE AND PROTEIN RESEARCH
INT J POWD	INTERNATIONAL JOURNAL OF POWDER METALLURGY
INT J PROT	INTERNATIONAL JOURNAL OF PROTEIN RESEARCH
INT J PSYCH	INTERNATIONAL JOURNAL OF PSYCHO-ANALYSIS
INT J QUANT	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY
INT J RAD B	INTERNATIONAL JOURNAL OF RADIATION BIOLOGY AND RELATED STUDIES IN PHYSICS, CHEMISTRY AND MEDICINE
INT J RAD P	INTERNATIONAL JOURNAL FOR RADIATION PHYSICS AND CHEMISTRY
INT J ROCK	INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES
INT J VIT N	INTERNATIONAL JOURNAL FOR VITAMIN AND NUTRITION RESEARCH
INT PHARMAC	INTERNATIONAL PHARMACOPSYCHIATRY
INT REV CYT	INTERNATIONAL REVIEW OF CYTOLOGY
INT STAT R	INTERNATIONAL STATISTICAL REVIEW
INT Z ANG P	INTERNATIONALE ZEITSCHRIFT FUR ANGEWANDTE PHYSIOLOGIE EINSCHLIESSLICH ARBEITSPHYSIOLOGIE
INTER ELECT	INTER ELECTRONIQUE
INTERNIST	INTERNIST
INV OPHTH	INVESTIGATIVE OPHTHALMOLOGY
INV PESQ	INVESTIGACION PESQUERA
INV RADIOL	INVESTIGATIVE RADIOLOGY
INV UROL	INVESTIGATIVE UROLOGY
INVENT MATH	INVENTIONES MATHEMATICAE
IRISH ASTR	IRISH ASTRONOMICAL JOURNAL
IRISH J AGR	IRISH JOURNAL OF AGRICULTURAL RESEARCH
IRISH J MED	IRISH JOURNAL OF MEDICAL SCIENCE
IRRAD ALIM	IRRADIATION DES ALIMENTS
ISA TRANS	ISA TRANSACTIONS
ISOTOP RAD	ISOTOPES AND RADIATION TECHNOLOGY
ISR J AGR R	ISRAEL JOURNAL OF AGRICULTURAL RESEARCH
ISR J BOT	ISRAEL JOURNAL OF BOTANY
ISR J CHEM	ISRAEL JOURNAL OF CHEMISTRY
ISR J EARTH	ISRAEL JOURNAL OF EARTH SCIENCES
ISR J MATH	ISRAEL JOURNAL OF MATHEMATICS
ISR J MED S	ISRAEL JOURNAL OF MEDICAL SCIENCES
ISR J TECH	ISRAEL JOURNAL OF TECHNOLOGY
ISR J ZOOL	ISRAEL JOURNAL OF ZOOLOGY

ITALIAN JOURNAL OF BIOCHEMISTRY	
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII. FIZIKA	
JOURNAL OF ABNORMAL PSYCHOLOGY AND SUPPLEMENT	
JOURNAL OF THE ASSOCIATION FOR COMPUTING MACHINERY	
JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA	
JOURNAL OF ADHESION	
JOURNAL OF THE AGRICULTURAL CHEMICAL SOCIETY OF JAPAN	
JOURNAL OF AGRICULTURAL ENGINEERING RESEARCH	
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY	
JOURNAL OF AGRICULTURAL SCIENCE	
JOURNAL OF THE AIR POLLUTION CONTROL ASSOCIATION	
JOURNAL OF THE ALBERT EINSTEIN MEDICAL CENTER	
JOURNAL OF ALGEBRA	
JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY	
JOURNAL OF THE AMERICAN ACADEMY OF CHILD PSYCHIATRY	
JOURNAL OF THE AMERICAN CERAMIC SOCIETY	
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	
JOURNAL OF THE AMERICAN DENTAL ASSOCIATION	
JOURNAL OF THE AMERICAN DIETETIC ASSOCIATION	
JOURNAL OF THE AMERICAN GERIATRICS SOCIETY	
JOURNAL OF THE AMERICAN LEATHER CHEMISTS ASSOCIATION	
JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	
JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY	
JOURNAL OF THE AMERICAN PHARMACEUTICAL ASSOCIATION	
JOURNAL OF THE AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE	
JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE	
JOURNAL OF THE AMERICAN SOCIETY OF SUGAR BEET TECHNOLOGISTS	
JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION	
JOURNAL OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION	
JOURNAL OF THE AMERICAN VETERINARY RADIOLOGY SOCIETY	
JOURNAL OF THE AMERICAN WATER WORKS ASSOCIATION	
JOURNAL D ANALYSE MATHEMATIQUE	
JOURNAL OF ANALYTICAL PSYCHOLOGY	
JOURNAL OF ANATOMY	
JOURNAL OF ANIMAL ECOLOGY	
JOURNAL OF ANIMAL SCIENCE	
JOURNAL OF ANTIBIOTICS	
JOURNAL OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS	
JOURNAL OF APPLIED PHYSIOLOGY	
JOURNAL OF APPLIED BACTERIOLOGY	
JOURNAL OF APPLIED BEHAVIOR ANALYSIS	
JOURNAL OF APPLIED BEHAVIORAL SCIENCE	
JOURNAL OF APPLIED CHEMISTRY AND BIOTECHNOLOGY	
JOURNAL OF APPLIED CRYSTALLOGRAPHY	
JOURNAL OF APPLIED ECOLOGY	
JOURNAL OF APPLIED MATHEMATICS AND MECHANICS, USSR	
JOURNAL OF APPLIED MECHANICS	
JOURNAL OF APPLIED PHYSICS	
JOURNAL OF APPLIED POLYMER SCIENCE	
JOURNAL OF APPLIED PROBABILITY	
JOURNAL OF APPLIED PSYCHOLOGY, AND MONOGRAPH	
JOURNAL OF THE ARNOLD ARBORETUM	
JOURNAL OF THE ASTRONAUTICAL SCIENCES	
JOURNAL OF ATMOSPHERIC AND TERRESTIAL PHYSICS	
JOURNAL OF THE ATMOSPHERIC SCIENCES	
JOURNAL OF THE AUDIO ENGINEERING SOCIETY	
JOURNAL OF THE AUSTRALIAN INSTITUTE OF AGRICULTURAL SCIENCE	
JOURNAL OF THE AUSTRALIAN INSTITUTE OF METALS	
JOURNAL OF BACTERIOLOGY	
JOURNAL OF BASIC ENGINEERING	
JOURNAL BELGE DE RADIOLOGIE	
JOURNAL OF BIOCHEMISTRY	
JOURNAL OF BIOENERGETICS	
JOURNAL OF BIOLOGICAL CHEMISTRY	
JOURNAL OF THE BIOLOGICAL PHOTOGRAPHIC ASSOCIATION	
JOURNAL OF BIOMECHANICS	
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH	
JOURNAL OF BIOSOCIAL SCIENCE	
JOURNAL OF BONE AND JOINT SURGERY	
JOURNAL OF THE BRITISH GRASSLAND SOCIETY	

J BR NUCL E	JOURNAL OF THE BRITISH NUCLEAR ENERGY SOCIETY
J BRYOL	JOURNAL OF BRYOLOGY
J CAN PET T	JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY
J CARD SURG	JOURNAL OF CARDIOVASCULAR SURGERY
J CATALYSIS	JOURNAL OF CATALYSIS
J CELL BIOL	JOURNAL OF CELL BIOLOGY
J CELL PHYS	JOURNAL OF CELLULAR PHYSIOLOGY
J CELL SCI	JOURNAL OF CELL SCIENCE
J CHEM DOC	JOURNAL OF CHEMICAL DOCUMENTATION
J CHEM EDUC	JOURNAL OF CHEMICAL EDUCATION
J CHEM EN D	JOURNAL OF CHEMICAL AND ENGINEERING DATA
J CHEM PHYS	JOURNAL OF CHEMICAL PHYSICS
J CHEM S CH	JOURNAL OF THE CHEMICAL SOCIETY. CHEMICAL COMMUNICATIONS
J CHEM S DA	JOURNAL OF THE CHEMICAL SOCIETY. DALTON TRANSACTIONS
J CHEM S F1	JOURNAL OF THE CHEMICAL SOCIETY. FARADAY TRANSACTIONS I
J CHEM S F2	JOURNAL OF THE CHEMICAL SOCIETY. FARADAY TRANSACTIONS II
J CHEM S P1	JOURNAL OF THE CHEMICAL SOCIETY. PERKIN TRANSACTIONS I
J CHEM S P2	JOURNAL OF THE CHEMICAL SOCIETY. PERKIN TRANSACTIONS II
J CHEM THER	JOURNAL OF CHEMICAL THERMODYNAMICS
J CHILD PSY	JOURNAL OF CHILD PSYCHOLOGY AND PSYCHIATRY AND ALLIED DISCIPLINES
J CHIM PHYS	JOURNAL DE CHIMIE PHYSIQUE ET DE PHYSICO-CHIMIE BIOLOGIQUE
J CHIN CHEM	JOURNAL OF THE CHINESE CHEMICAL SOCIETY
J CHIR	JOURNAL DE CHIRURGIE
J CHROM SCI	JOURNAL OF CHROMATOGRAPHIC SCIENCE
J CHROMAT	JOURNAL OF CHROMATOGRAPHY
J CHRON DIS	JOURNAL OF CHRONIC DISEASES
J CLIN END	JOURNAL OF CLINICAL ENDOCRINOLOGY AND METABOLISM
J CLIN INV	JOURNAL OF CLINICAL INVESTIGATION
J CLIN PATH	JOURNAL OF CLINICAL PATHOLOGY
J CLIN PHAR	JOURNAL OF CLINICAL PHARMACOLOGY AND NEW DRUGS
J CLIN PSYC	JOURNAL OF CLINICAL PSYCHOLOGY
J COLL I SC	JOURNAL OF COLLOID AND INTERFACE SCIENCE
J COM PHYSL	JOURNAL OF COMPARATIVE AND PHYSIOLOGICAL PSYCHOLOGY AND SUPPLEMENT
J COMP NEUR	JOURNAL OF COMPARATIVE NEUROLOGY
J COMP PATH	JOURNAL OF COMPARATIVE PATHOLOGY
J COMP PHYS	JOURNAL OF COMPARATIVE PHYSIOLOGY
J COMPOS MA	JOURNAL OF COMPOSITE MATERIALS
J COMPUT PH	JOURNAL OF COMPUTATIONAL PHYSICS
J CONFL RES	JOURNAL OF CONFLICT RESOLUTION
J CONS CLIN	JOURNAL OF CONSULTING AND CLINICAL PSYCHOLOGY AND SUPPLEMENT
J CONSEIL	JOURNAL DU CONSEIL
J COUN PSYC	JOURNAL OF COUNSELING PSYCHOLOGY
J CRYST GR	JOURNAL OF CRYSTAL GROWTH
J DAIRY RES	JOURNAL OF DAIRY RESEARCH
J DAIRY SCI	JOURNAL OF DAIRY SCIENCE
J DENT RES	JOURNAL OF DENTAL RESEARCH
J DIFF EQUA	JOURNAL OF DIFFERENTIAL EQUATIONS
J DOC	JOURNAL OF DOCUMENTATION
J ECOLOGY	JOURNAL OF ECOLOGY
J ECON ENT	JOURNAL OF ECONOMIC ENTOMOLOGY
J EDUC DATA	JOURNAL OF EDUCATIONAL DATA PROCESSING
J EDUC LIBN	JOURNAL OF EDUCATION FOR LIBRARIANSHIP
J EDUC PSYC	JOURNAL OF EDUCATIONAL PSYCHOLOGY AND SUPPLEMENT
J EDUC RES	JOURNAL OF EDUCATIONAL RESEARCH
J ELCARDIOL	JOURNAL OF ELECTROCARDIOLOGY
J ELCHEM SO	JOURNAL OF THE ELECTROCHEMICAL SOCIETY
J ELEC CHEM	JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY
J ELEC MICR	JOURNAL OF ELECTRON MICROSCOPY
J EMB EXP M	JOURNAL OF EMBRYOLOGY AND EXPERIMENTAL MORPHOLOGY
J ENDOCR	JOURNAL OF ENDOCRINOLOGY
J ENG IND	JOURNAL OF ENGINEERING FOR INDUSTRY
J ENG MATH	JOURNAL OF ENGINEERING MATHEMATICS
J ENG POWER	JOURNAL OF ENGINEERING FOR POWER
J ENTOMOL A	JOURNAL OF ENTOMOLOGY SERIES A. GENERAL ENTOMOLOGY
J ENTOMOL B	JOURNAL OF ENTOMOLOGY SERIES B. TAXONOMY
J ENVIR SCI	JOURNAL OF ENVIRONMENTAL SCIENCES
J EX AN BEH	JOURNAL OF THE EXPERIMENTAL ANALYSIS OF BEHAVIOR
J EXP BIOL	JOURNAL OF EXPERIMENTAL BIOLOGY
J EXP BOT	JOURNAL OF EXPERIMENTAL BOTANY
J EXP C PSY	JOURNAL OF EXPERIMENTAL CHILD PSYCHOLOGY
J EXP EDUC	JOURNAL OF EXPERIMENTAL EDUCATION
J EXP MED	JOURNAL OF EXPERIMENTAL MEDICINE
J EXP PSYCH	JOURNAL OF EXPERIMENTAL PSYCHOLOGY, AND MONOGRAPH
J EXP S PSY	JOURNAL OF EXPERIMENTAL SOCIAL PSYCHOLOGY

J EXP ZOOL	JOURNAL OF EXPERIMENTAL ZOOLOGY
J FAC TOK 1	JOURNAL OF THE FACULTY OF SCIENCE UNIVERSITY OF TOKYO. SECTION 1. MATHEMATICS, ASTRONOMY, PHYSICS, CHEMISTRY
J FERM TECH	JOURNAL OF FERMENTATION TECHNOLOGY
J FISH BIOL	JOURNAL OF FISH BIOLOGY
J FISH RES	JOURNAL OF THE FISHERIES RESEARCH BOARD OF CANADA
J FLUID MEC	JOURNAL OF FLUID MECHANICS
J FOOD SCI	JOURNAL OF FOOD SCIENCE
J FOR SCI	JOURNAL OF THE FORENSIC SCIENCE SOCIETY
J FORESTRY	JOURNAL OF FORESTRY
J FRANKL I	JOURNAL OF THE FRANKLIN INSTITUTE
J GEN A MIC	JOURNAL OF GENERAL AND APPLIED MICROBIOLOGY
J GEN MICRO	JOURNAL OF GENERAL MICROBIOLOGY
J GEN PHYSL	JOURNAL OF GENERAL PHYSIOLOGY
J GEN PSYCH	JOURNAL OF GENERAL PSYCHOLOGY
J GEN VIROL	JOURNAL OF GENERAL VIROLOGY
J GENET HUM	JOURNAL DE GENETIQUE HUMAINE
J GENET PSY	JOURNAL OF GENETIC PSYCHOLOGY
J GENETICS	JOURNAL OF GENETICS
J GEOL S IN	JOURNAL OF THE GEOLOGICAL SOCIETY OF INDIA
J GEOLOGY	JOURNAL OF GEOLOGY
J GEOMAGN G	JOURNAL OF GEOMAGNETISM AND GEOELECTRICITY
J GEOPH RES	JOURNAL OF GEOPHYSICAL RESEARCH
J GERONTOL	JOURNAL OF GERONTOLOGY
J HEAT TRAN	JOURNAL OF HEAT TRANSFER
J HELMINTH	JOURNAL OF HELMINTHOLOGY
J HEREDITY	JOURNAL OF HEREDITY
J HETERO CH	JOURNAL OF HETEROCYCLIC CHEMISTRY
J HIST CYTO	JOURNAL OF HISTOCHEMISTRY AND CYTOCHEMISTRY
J HORT SCI	JOURNAL OF HORTICULTURAL SCIENCE
J HYG CAMB	JOURNAL OF HYGIENE, CAMBRIDGE
J HYG EP MI	JOURNAL OF HYGIENE EPIDEMIOLOGY MICROBIOLOGY AND IMMUNOLOGY
J I BREWING	JOURNAL OF THE INSTITUTE OF BREWING
J I FUEL	JOURNAL OF THE INSTITUTE OF FUEL
J I HIGHW E	JOURNAL OF THE INSTITUTION OF HIGHWAY ENGINEERS
J I METALS	JOURNAL OF THE INSTITUTE OF METALS
J I NAVIG	JOURNAL OF THE INSTITUTE OF NAVIGATION
J I NUCL EN	JOURNAL OF THE INSTITUTION OF NUCLEAR ENGINEERS
J I PETROL	JOURNAL OF THE INSTITUTE OF PETROLEUM
J I WOOD SC	JOURNAL OF THE INSTITUTE OF WOOD SCIENCE
J IMMUNOL	JOURNAL OF IMMUNOLOGY
J IND CH S	JOURNAL OF THE INDIAN CHEMICAL SOCIETY
J INDIAN I	JOURNAL OF THE INDIAN INSTITUTE OF SCIENCE
J INDIV PSY	JOURNAL OF INDIVIDUAL PSYCHOLOGY
J INFEC DIS	JOURNAL OF INFECTIOUS DISEASES
J INORG NUC	JOURNAL OF INORGANIC AND NUCLEAR CHEMISTRY
J INSECT PH	JOURNAL OF INSECT PHYSIOLOGY
J INTERD CY	JOURNAL OF INTERDISCIPLINARY CYCLE RESEARCH
J INVERT PAT	JOURNAL OF INVERTEBRATE PATHOLOGY
J INVES DER	JOURNAL OF INVESTIGATIVE DERMATOLOGY
J IRISH C P	JOURNAL OF THE IRISH COLLEGES OF PHYSICIANS AND SURGEONS
J IRON ST I	JOURNAL OF THE IRON AND STEEL INSTITUTE
J JAP S LUB	JOURNAL OF JAPAN SOCIETY OF LUBRICATION ENGINEERS
J LA CL MED	JOURNAL OF LABORATORY AND CLINICAL MEDICINE
J LABEL COM	JOURNAL OF LABELLED COMPOUND
J LESSC MET	JOURNAL OF THE LESS-COMMON METALS
J LIBR AUT	JOURNAL OF LIBRARY AUTOMATION
J LIPID RES	JOURNAL OF LIPID RESEARCH
J LOND MATH	JOURNAL OF THE LONDON MATHEMATICAL SOCIETY
J LUB TECH	JOURNAL OF LUBRICATION TECHNOLOGY
J MACR S CH	JOURNAL OF MACROMOLECULAR SCIENCE. CHEMISTRY
J MACR S PH	JOURNAL OF MACROMOLECULAR SCIENCE. PHYSICS
J MACR S RM	JOURNAL OF MACROMOLECULAR SCIENCE. REVIEWS IN MACROMOLECULAR CHEMISTRY
J MACR S RP	JOURNAL OF MACROMOLECULAR SCIENCE. REVIEWS IN POLYMER TECHNOLOGY
J MAGN RES	JOURNAL OF MAGNETIC RESONANCE
J MAMMAL	JOURNAL OF MAMMALOGY
J MANAG STU	JOURNAL OF MANAGEMENT STUDIES
J MARINE BI	JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM
J MARINE RE	JOURNAL OF MARINE RESEARCH
J MATER SCI	JOURNAL OF MATERIALS SCIENCE
J MATERIALS	JOURNAL OF MATERIALS
J MATH ANAL	JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS
J MATH JAP	JOURNAL OF THE MATHEMATICAL SOCIETY OF JAPAN
J MATH P A	JOURNAL DE MATHEMATIQUES PURES ET APPLIQUEES

J MATH PHYS	JOURNAL OF MATHEMATICAL PHYSICS
J MATH PSYC	JOURNAL OF MATHEMATICAL PSYCHOLOGY
J MECANIQUE	JOURNAL DE MECANIQUE
J MECH ENG	JOURNAL OF MECHANICAL ENGINEERING SCIENCE
J MECH PHYS	JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS
J MECHANISM	JOURNAL OF MECHANISMS
J MED	JOURNAL OF MEDICINE
J MED CHEM	JOURNAL OF MEDICINAL CHEMISTRY
J MED EDUC	JOURNAL OF MEDICAL EDUCATION
J MED ENT	JOURNAL OF MEDICAL ENTOMOLOGY
J MED GENET	JOURNAL OF MEDICAL GENETICS
J MED MICRO	JOURNAL OF MEDICAL MICROBIOLOGY
J MED PRIM	JOURNAL OF MEDICAL PRIMATOLOGY
J MEMBR BIO	JOURNAL OF MEMBRANE BIOLOGY
J MENT DEF	JOURNAL OF MENTAL DEFICIENCY RESEARCH
J METALS	JOURNAL OF METALS
J MICROSC O	JOURNAL OF MICROSCOPY-OXFORD
J MICROSCOP	JOURNAL DE MICROSCOPIE-PARIS
J MILK FOOD	JOURNAL OF MILK AND FOOD TECHNOLOGY
J MOL BIOL	JOURNAL OF MOLECULAR BIOLOGY
J MOL CEL C	JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY
J MOL EVOL	JOURNAL OF MOLECULAR EVOLUTION
J MOL SPECT	JOURNAL OF MOLECULAR SPECTROSCOPY
J MOL STRUC	JOURNAL OF MOLECULAR STRUCTURE
J MORPH	JOURNAL OF MORPHOLOGY
J NAT CANC	JOURNAL OF THE NATIONAL CANCER INSTITUTE
J NAT HIST	JOURNAL OF NATURAL HISTORY
J NAVIG	JOURNAL OF NAVIGATION
J NE EXP NE	JOURNAL OF NEUROPATHOLOGY AND EXPERIMENTAL NEUROLOGY
J NE NE PSY	JOURNAL OF NEUROLOGY, NEUROSURGERY AND PSYCHIATRY
J NEGRO ED	JOURNAL OF NEGRO EDUCATION
J NEMATOL	JOURNAL OF NEMATOLOGY
J NERV MENT	JOURNAL OF NERVOUS AND MENTAL DISEASE
J NEUR SCI	JOURNAL OF THE NEUROLOGICAL SCIENCES
J NEURAL TR	JOURNAL OF NEURAL TRANSMISSION
J NEURO-VIS	JOURNAL OF NEURO-VISCERAL RELATIONS
J NEUROBIOL	JOURNAL OF NEUROBIOLOGY
J NEUROCHEM	JOURNAL OF NEUROCHEMISTRY
J NEUROSURG	JOURNAL OF NEUROSURGERY
J NEUROPHYSL	JOURNAL OF NEUROPHYSIOLOGY
J NUC SCI T	JOURNAL OF NUCLEAR SCIENCE AND TECHNOLOGY, TOKYO
J NUCL BIOL	JOURNAL OF NUCLEAR BIOLOGY AND MEDICINE
J NUCL ENER	JOURNAL OF NUCLEAR ENERGY
J NUCL MAT	JOURNAL OF NUCLEAR MATERIALS
J NUCL MED	JOURNAL OF NUCLEAR MEDICINE
J NUTR	JOURNAL OF NUTRITION AND SUPPLEMENT
J NY ENT SO	JOURNAL OF THE NEW YORK ENTOMOLOGICAL SOCIETY
J OBSTET GY	JOURNAL OF OBSTETRICS AND GYNAECOLOGY OF THE BRITISH COMMONWEALTH
J OIL COL C	JOURNAL OF THE OIL AND COLOUR CHEMISTS ASSOCIATION
J OP RES SO	JOURNAL OF THE OPERATIONS RESEARCH SOCIETY OF JAPAN
J OPT SOC	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA
J ORAL SURG	JOURNAL OF ORAL SURGERY
J ORG CHEM	JOURNAL OF ORGANIC CHEMISTRY
J ORGMET CH	JOURNAL OF ORGANOMETALLIC CHEMISTRY
J PAINT TEC	JOURNAL OF PAINT TECHNOLOGY
J PARASITOL	JOURNAL OF PARASITOLOGY
J PATHOLOGY	JOURNAL OF PATHOLOGY
J PED SURG	JOURNAL OF PEDIATRIC SURGERY
J PEDIAT	JOURNAL OF PEDIATRICS
J PERIOD RE	JOURNAL OF PERIODONTAL RESEARCH
J PERIODONT	JOURNAL OF PERIODONTOLOGY
J PERS SOC	JOURNAL OF PERSONALITY AND SOCIAL PSYCHOLOGY AND SUPPLEMENT
J PERSONAL	JOURNAL OF PERSONALITY
J PETRO TEC	JOURNAL OF PETROLEUM TECHNOLOGY
J PETROLOGY	JOURNAL OF PETROLOGY
J PHARM EXP	JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS
J PHARM PHA	JOURNAL OF PHARMACY AND PHARMACOLOGY
J PHARM SCI	JOURNAL OF PHARMACEUTICAL SCIENCES
J PHARMACOL	JOURNAL DE PHARMACOLOGIE
J PHOT SCI	JOURNAL OF PHOTOGRAPHIC SCIENCE
J PHYCOLOGY	JOURNAL OF PHYCOLOGY
J PHYS A	JOURNAL OF PHYSICS. PART A. GENERAL
J PHYS B	JOURNAL OF PHYSICS. PART B. ATOMIC AND MOLECULAR PHYSICS
J PHYS C	JOURNAL OF PHYSICS. PART C. SOLID STATE PHYSICS AND SUPPLEMENT
J PHYS CH S	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS
J PHYS CHEM	JOURNAL OF PHYSICAL CHEMISTRY
J PHYS D	JOURNAL OF PHYSICS. PART D. APPLIED PHYSICS

J PHYS E	JOURNAL OF PHYSICS. PART E SCIENTIFIC INSTRUMENTS
J PHYS F	JOURNAL OF PHYSICS. PART F. METAL PHYSICS
J PHYS JAP	JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN AND SUPPLEMENT
J PHYSIQUE	JOURNAL DE PHYSIQUE
J PHYSL LON	JOURNAL OF PHYSIOLOGY, LONDON
J PHYSL PAR	JOURNAL DE PHYSIOLOGIE, PARIS
J PLASMA PH	JOURNAL OF PLASMA PHYSICS
J POL SC A1	JOURNAL OF POLYMER SCIENCE. PART A-1. POLYMER CHEMISTRY
J POL SC A2	JOURNAL OF POLYMER SCIENCE. PART A-2. POLYMER PHYSICS
J POL SC PC	JOURNAL OF POLYMER SCIENCE. POLYMER CHEMISTRY EDITION
J POL SC PL	JOURNAL OF POLYMER SCIENCE. POLYMER LETTERS EDITION
J POL SCI B	JOURNAL OF POLYMER SCIENCE. PART B. POLYMER LETTERS
J POL SCI C	JOURNAL OF POLYMER SCIENCE. PART C. POLYMER SYMPOSIA
J PRAK CHEM	JOURNAL FUR PRAKTISCHE CHEMIE
J PRE CONCR	JOURNAL OF THE PRESTRESSED CONCRETE INSTITUTE
J PROS DENT	JOURNAL OF PROSTHETIC DENTISTRY
J PROTOZOOL	JOURNAL OF PROTOZOOLOGY
J PSYCH RES	JOURNAL OF PSYCHIATRIC RESEARCH
J PSYCHOL	JOURNAL OF PSYCHOLOGY
J PSYCHOSOM	JOURNAL OF PSYCHOSOMATIC RESEARCH
J QUAN SPEC	JOURNAL OF QUANTITATIVE SPECTROSCOPY AND RADIATIVE TRANSFER
J RAD CHEM	JOURNAL OF RADIOANALYTICAL CHEMISTRY
J RADIOL	JOURNAL DE RADIOLOGIE D ELECTROLOGIE ET DE MEDECINE NUCLEAIRE
J RANGE MAN	JOURNAL OF RANGE MANAGEMENT
J REIN MATH	JOURNAL FUR DIE REINE UND ANGEWANDTE MATHEMATIK
J REPR FERT	JOURNAL OF REPRODUCTION AND FERTILITY
J REPRO MED	JOURNAL OF REPRODUCTIVE MEDICINE
J RES MUSIC	JOURNAL OF RESEARCH IN MUSIC EDUCATION
J RES NBS A	JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS. SECTION A. PHYSICS AND CHEMISTRY
J RES NBS B	JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS. SECTION B. MATHEMATICAL SCIENCES
J RES NBS C	JOURNAL OF RESEARCH OF THE NATIONAL BUREAU OF STANDARDS. SECTION C. ENGINEERING AND INSTRUMENTATION
J RETIC SOC	JOURNAL OF THE RETICULOENDOTHELIAL SOCIETY
J ROY AGR S	JOURNAL OF THE ROYAL AGRICULTURAL SOCIETY OF ENGLAND
J ROY ASTRO	JOURNAL OF THE ROYAL ASTRONOMICAL SOCIETY OF CANADA
J ROY STA A	JOURNAL OF THE ROYAL STATISTICAL SOCIETY. SERIES A. GENERAL
J ROY STA B	JOURNAL OF THE ROYAL STATISTICAL SOCIETY. SERIES B. METHODOLOGICAL
J ROY STA C	JOURNAL OF THE ROYAL STATISTICAL SOCIETY. SERIES C. APPLIED STATISTICS
J RS NZ	JOURNAL OF THE ROYAL SOCIETY OF NEW ZEALAND
J S COSM CH	JOURNAL OF THE SOCIETY OF COSMETIC CHEMISTS
J S DYE COL	JOURNAL OF THE SOCIETY OF DYERS AND COLOURISTS
J SA CHEM I	JOURNAL OF THE SOUTH AFRICAN CHEMICAL INSTITUTE
J SA I MIN	JOURNAL OF THE SOUTH AFRICAN INSTITUTE OF MINING AND METALLURGY
J SANIT ENG	JOURNAL OF THE SANITARY ENGINEERING DIVISION-ASCE
J SCI FOOD	JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE
J SCI IND R	JOURNAL OF SCIENTIFIC AND INDUSTRIAL RESEARCH
J SCI LAB D	JOURNAL OF THE SCIENTIFIC LABORATORIES. DENISON UNIVERSITY
J SCI TECH	JOURNAL OF SCIENCE AND TECHNOLOGY
J SED PETRO	JOURNAL OF SEDIMENTARY PETROLOGY
J SM ANIM P	JOURNAL OF SMALL ANIMAL PRACTICE
J SMPTE	JOURNAL OF THE SOCIETY OF MOTION PICTURE TELEVISION ENGINEERS
J SOC PHOTO	JOURNAL OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS
J SOC PSYCH	JOURNAL OF SOCIAL PSYCHOLOGY
J SOIL SCI	JOURNAL OF SOIL SCIENCE
J SOIL WAT	JOURNAL OF SOIL AND WATER CONSERVATION
J SOL ST CH	JOURNAL OF SOLID STATE CHEMISTRY
J SOUND VIB	JOURNAL OF SOUND AND VIBRATION
J SPAC ROCK	JOURNAL OF SPACECRAFT AND ROCKETS
J SPEECH HE	JOURNAL OF SPEECH AND HEARING RESEARCH
J STEROID B	JOURNAL OF STEROID BIOCHEMISTRY
J STORED PR	JOURNAL OF STORED PRODUCTS RESEARCH
J SUBMIC CY	JOURNAL OF SUBMICROSCOPIC CYTOLOGY
J SURG RES	JOURNAL OF SURGICAL RESEARCH
J SYMB LOG	JOURNAL OF SYMBOLIC LOGIC
J SYN ORG J	JOURNAL OF SYNTHETIC ORGANIC CHEMISTRY, JAPAN
J TEXTILE I	JOURNAL OF THE TEXTILE INSTITUTE
J THEOR BIO	JOURNAL OF THEORETICAL BIOLOGY
J THERM ANA	JOURNAL OF THERMAL ANALYSIS
J THOR SURG	JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY
J TRAUMA	JOURNAL OF TRAUMA
J TROP MED	JOURNAL OF TROPICAL MEDICINE AND HYGIENE
J ULTRA RES	JOURNAL OF ULTRASTRUCTURE RESEARCH
J UROL	JOURNAL OF UROLOGY
J UROL NEPH	JOURNAL D UROLOGIE ET DE NEPHROLOGIE
J VAC SCI T	JOURNAL OF VACUUM SCIENCE AND TECHNOLOGY
J VERB LEAR	JOURNAL OF VERBAL LEARNING AND VERBAL BEHAVIOR
J VIROLOGY	JOURNAL OF VIROLOGY
J VITAMINOL	JOURNAL OF VITAMINOLOGY
J WATER P C	JOURNAL OF THE WATER POLLUTION CONTROL FEDERATION
J WILDL MAN	JOURNAL OF WILDLIFE MANAGEMENT
J ZOOL	JOURNAL OF ZOOLOGY
JAP ANALYST	JAPAN ANALYST
JAP CIRC J	JAPANESE CIRCULATION JOURNAL
JAP HEART J	JAPANESE HEART JOURNAL
JAP J A PHY	JAPANESE JOURNAL OF APPLIED PHYSICS
JAP J BOTAN	JAPANESE JOURNAL OF BOTANY
JAP J EXP M	JAPANESE JOURNAL OF EXPERIMENTAL MEDICINE
JAP J GENET	JAPANESE JOURNAL OF GENETICS
JAP J HUM G	JAPANESE JOURNAL OF HUMAN GENETICS
JAP J MED S	JAPANESE JOURNAL OF MEDICAL SCIENCE AND BIOLOGY
JAP J MICRO	JAPANESE JOURNAL OF MICROBIOLOGY
JAP J PHARM	JAPANESE JOURNAL OF PHARMACOLOGY
JAP J PHYSL	JAPANESE JOURNAL OF PHYSIOLOGY
JAP J VET R	JAPANESE JOURNAL OF VETERINARY RESEARCH
JAP J VET S	JAPANESE JOURNAL OF VETERINARY SCIENCE
JAP J ZOOL	JAPANESE JOURNAL OF ZOOLOGY
JAP PSY RES	JAPANESE PSYCHOLOGICAL RESEARCH
JAP TELECOM	JAPAN TELECOMMUNICATIONS REVIEW
JERNKON ANN	JERNKONTORETS ANNALER
JETP LETTER	JETP LETTERS, USSR
JOHNS H MED	JOHNS HOPKINS MEDICAL JOURNAL
KAUT GUM KU	KAUTSCHUK UND GUMMI KUNSTSTOFFE
KEM KOZLEM	KEMIAI KOZLEMENYEK
KEM TIDSKR	KEMISK TIDSKRIFT
KERNENERGIE	KERNENERGIE
KERNTECHNIK	KERNTECHNIK
KHIM FAR ZH	KHIMIKO FARMATSEVTICHESKII ZHURNAL
KHIM GETERO	KHIMIYA GETEROTSIKLICHESKIKH SOEDINENII
KHIM PRIR S	KHIMIYA PRIRODNYKH SOEDINENII
KIDNEY INT	KIDNEY INTERNATIONAL
KJEMI	KJEMI
KLIN MONATS	KLINISCHE MONATSBLATTER FUR AUGENHEILKUNDE
KLIN PADIAT	KLINISCHE PADIATRIE
KLIN WOCH	KLINISCHE WOCHENSCHRIFT
KOLL ZH	KOLLOIDNYI ZHURNAL
KOLLOID-Z	KOLLOID-ZEITSCHRIFT AND ZEITSCHRIFT FUR POLYMERE
KOSM BIOL M	KOSMICHESKAYA BIOLOGIYA I MEDITSINA
KRISTALLOGR	KRISTALLOGRAFIYA
KUNSTSTOFFE	KUNSTSTOFFE-PLASTICS
KYBERNETIK	KYBERNETIK
LAB ANIM SC	LABORATORY ANIMAL SCIENCE
LAB INV	LABORATORY INVESTIGATION
LANCET	LANCET
LANDBAU VOL	LANDBAUFORSCHUNG VOLKENRODE
LANDBOUWMEC	LANDBOUWMECHANISATIE
LANDTECHNIK	LANDTECHNIK
LANG SPEECH	LANGUAGE AND SPEECH
LANGENBECK	LANGENBECKS ARCHIV FUR CHIRURGIE
LARYNGOSCOP	LARYNGOSCOPE
LEBENSM IND	LEBENSMITTEL INDUSTRIE
LEBER MAG D	LEBER MAGEN DARM
LETHAIA	LETHAIA
LETT NUOV C	LETTERE AL NUOVO CIMENTO
LIB RES TEC	LIBRARY RESOURCES AND TECHNICAL SERVICES
LIB TRENDS	LIBRARY TRENDS
LIBRARY J	LIBRARY JOURNAL
LIBRARY Q	LIBRARY QUARTERLY
LICHTTECH	LICHTTECHNIK
LIFE SCI P1	LIFE SCIENCES. PART 1. PHYSIOLOGY AND PHARMACOLOGY
LIFE SCI P2	LIFE SCIENCES. PART 2. BIOCHEMISTRY, GENERAL AND MOLECULAR BIOLOGY
LILLE MED	LILLE MEDICAL
LIMN OCEAN	LIMNOLOGY AND OCEANOGRAPHY
LIPIDS	LIPIDS
LLOYDIA	LLOYDIA
LONG RANG P	LONG RANGE PLANNING
LUBRIC ENG	LUBRICATION ENGINEERING
LUBRICATION	LUBRICATION
LYMPHOLOGY	LYMPHOLOGY
LYON MED	LYON MEDICAL
M NOT R AST	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY
M WEATH REV	MONTHLY WEATHER REVIEW
MACH PROD E	MACHINERY AND PRODUCTION ENGINEERING
MACH TOOL R	MACHINE-TOOL REVIEW
MACHINE DES	MACHINE DESIGN
MACHINERY	MACHINERY
MACROMOLEC	MACROMOLECULES
MAG CONCR R	MAGAZINE OF CONCRETE RESEARCH
MAGY KEM FO	MAGYAR KEMIAI FOLYOIRAT
MAGY KEM LA	MAGYAR KEMIKUSOK LAPJA
MAKROM CHEM	MAKROMOLEKULARE CHEMIE
MANUF CH AE	MANUFACTURING CHEMIST AND AEROSOL NEWS
MANUF ENG M	MANUFACTURING ENGINEERING & MANAGEMENT
MANUSC MATH	MANUSCRIPTA MATHEMATICA
MAR FISH RE	MARINE FISHERIES REVIEW
MAR TECH SJ	MARINE TECHNOLOGY SOCIETY JOURNAL
MARCONI REV	MARCONI REVIEW
MARINE BIOL	MARINE BIOLOGY
MARINE GEOL	MARINE GEOLOGY
MASCHN TEC	MASCHINENBAU TECHNIK
MAT FYS MED	MATEMATISK-FYSISKE MEDDELELSER UDGIVET AF DET KONGELIGE DANSKE VIDENSKABERNES SELSKAB
MAT FYS SKR	MATEMATISK-FYSISKE SKRIFTER UDGIVET AF DET KONGELIGE DANSKE VIDENSKABERNES SELSKAB
MATER ENG	MATERIALS ENGINEERING
MATER EVAL	MATERIALS EVALUATION
MATER PROT	MATERIALS PROTECTION AND PERFORMANCE
MATER RES B	MATERIALS RESEARCH BULLETIN
MATER RES S	MATERIALS RESEARCH AND STANDARDS
MATER SCI E	MATERIALS SCIENCE AND ENGINEERING
MATH ANNAL	MATHEMATISCHE ANNALEN
MATH COMPUT	MATHEMATICS OF COMPUTATION
MATH NACHR	MATHEMATISCHE NACHRICHTEN
MATH SCAND	MATHEMATICA SCANDINAVICA
MATH Z	MATHEMATISCHE ZEITSCHRIFT
MATHEMATIKA	MATHEMATIKA
MATR TENS Q	MATRIX AND TENSOR QUARTERLY
MAYO CLIN P	MAYO CLINIC PROCEEDINGS
MEAS CONTROL	MEASUREMENT AND CONTROL
MEAS TECH R	MEASUREMENT TECHNIQUES, USSR
MECH ENG	MECHANICAL ENGINEERING
MECH ENG SC	MECHANICAL ENGINEERING SCIENCE
MECH HANDL	MECHANICAL HANDLING
MECH MACH T	MECHANISM AND MACHINE THEORY
MECHANIK	MECHANIK MIESIECZNIK NAUKOW TECHNICZNY
MED BIO ENG	MEDICAL AND BIOLOGICAL ENGINEERING
MED BIO ILL	MEDICAL AND BIOLOGICAL ILLUSTRATION
MED C VIRG	MEDICAL COLLEGE OF VIRGINIA QUARTERLY
MED CLIN NA	MEDICAL CLINICS OF NORTH AMERICA
MED J AUST	MEDICAL JOURNAL OF AUSTRALIA
MED LAB TEC	MEDICAL LABORATORY TECHNOLOGY
MED MICROBI	MEDICAL MICROBIOLOGY AND IMMUNOLOGY
MED RES ENG	MEDICAL RESEARCH ENGINEERING
MED SCI SPT	MEDICINE AND SCIENCE IN SPORTS
MEDD NOR SK	MEDDELELSER FRA DET NORSKE SKOGFORSOKSVESEN
MEDICINA	MEDICINA
MEDICINE	MEDICINE
MEM AM MATH	MEMOIRS OF THE AMERICAN MATHEMATICAL SOCIETY
MEM ENT S C	MEMOIRS OF THE ENTOMOLOGICAL SOCIETY OF CANADA
MEM I OSW C	MEMORIAS DO INSTITUTO OSWALDO CRUZ
MEM S H MET	MEMOIRES SCIENTIFIQUES DE LA REVUE DE METALLURGIE
MENTAL HYG	MENTAL HYGIENE
MES REG AUT	MESURES REGULATION AUTOMATISME
MESSTECHNIK	MESSTECHNIK
MET INF MED	METHODS OF INFORMATION IN MEDICINE
METABOLISM	METABOLISM
METAL CONST	METAL CONSTRUCTION AND BRITISH WELDING JOURNAL
METAL CUT	METAL CUTTINGS
METAL ENG Q	METALS ENGINEERING QUARTERLY
METAL PROGR	METAL PROGRESS
METAL STAMP	METAL STAMPING
METAL TREAT	METAL TREATING
METALL	METALL
METALL ITAL	METALLURGIA ITALIANA
METALL MET	METALLURGIA AND METAL FORMING
METALLURG T	METALLURGICAL TRANSACTIONS
METALWORK E	METALWORKING ECONOMICS
METEOR MAG	METEOROLOGICAL MAGAZINE
METEOR RUND	METEOROLOGISCHE RUNDSCHAU
METHODOLOGIA	METROLOGIA
MICH MATH J	MICHIGAN MATHEMATICAL JOURNAL
MICROBIOS	MICROBIOS
MICROCHEM J	MICROCHEMICAL JOURNAL
MICROEL REL	MICROELECTRONICS AND RELIABILITY
MICROSCOPE	MICROSCOPE
MICROTECNIC	MICROTECNIC
MICROVASC R	MICROVASCULAR RESEARCH
MIKROBIOLOG	MIKROBIOLOGIYA
MIKROCH ACT	MIKROCHIMICA ACTA
MIKROSKOPIE	MIKROSKOPIE
MILIT MED	MILITARY MEDICINE
MIN CONGR J	MINING CONGRESS JOURNAL
MIN DEPOSIT	MINERALIUM DEPOSITA
MIN FISICON	MINERVA FISICONUCLEARE. GIORNALE DI FISICA SANITARIA E PROTEZIONE CONTRO LE RADIAZIONI
MIN MET Q	MINING AND METALLURGY QUARTERLY
MIN RAD	MINERVA RADIOLOGICA
MINERAL MAG	MINERALOGICAL MAGAZINE
MITT B FORS	MITTEILUNGEN DER BUNDESFORSCHUNGSANSTALT FUR FORST- UND HOLZWIRTSCHAFT
MOD PLAST	MODERN PLASTICS
MOD TREAT	MODERN TREATMENT
MOL BIOL R	MOLEKULYARNAYA BIOLOGIYA
MOL G GENET	MOLECULAR AND GENERAL GENETICS
MOLEC CRYST	MOLECULAR CRYSTALS AND LIQUID CRYSTALS
MOLEC PHARM	MOLECULAR PHARMACOLOGY
MOLEC PHYS	MOLECULAR PHYSICS
MON PAEDIAT	MONOGRAPHS IN PAEDIATRICA
MON S RES C	MONOGRAPHS OF THE SOCIETY FOR RESEARCH IN CHILD DEVELOPMENT
MONATS CHEM	MONATSHEFTE FUR CHEMIE
MONATS KIND	MONATSSCHRIFT FUR KINDERHEILKUNDE
MONATS MATH	MONATSHEFTE FUR MATHEMATIK
MONATS UNFA	MONATSSCHRIFT FUR UNFALLHEILKUNDE VERSICHERUNGS-, VERSORGUNGS- UND VERKEHRSMEDIZIN
MOSQUITO NE	MOSQUITO NEWS
MT SINAI J	MOUNT SINAI JOURNAL OF MEDICINE
MUTAT RES	MUTATION RESEARCH
MYCOLOGIA	MYCOLOGIA
MYCOP MYC A	MYCOPATHOLOGIA ET MYCOLOGIA APPLICATA, AND SUPPLEMENTUM
N ENG J MED	NEW ENGLAND JOURNAL OF MEDICINE
N-S ARCH PH	NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY
N-S ARCHIV	NAUNYN-SCHMIEDEBERGS ARCHIV FUR PHARMAKOLOGIE
NACHR DOKUM	NACHRICHTEN FUR DOKUMENTATION
NACHRTECH Z	NACHRICHTENTECHNISCHE ZEITSCHRIFT
NAG MATH J	NAGOYA MATHEMATICAL JOURNAL
NAT CAN I M	NATIONAL CANCER INSTITUTE MONOGRAPH
NAT I ANIM	NATIONAL INSTITUTE OF ANIMAL HEALTH QUARTERLY
NAT S INF D	NATIONAL SYMPOSIUM ON INFORMATION DISPLAY
NATURAL CAN	NATURALISTE CANADIEN
NATURAL HI	NATURAL HISTORY
NATURE	NATURE
NATURE-BIOL	NATURE-NEW BIOLOGY
NATURE-PHYS	NATURE-PHYSICAL SCIENCE
NATURWISSEN	NATURWISSENSCHAFTEN
NAU T INF 1	NAUCHNO-TEKHNICHESKAYA INFORMATSIYA. SERIYA 1. ORGANIZATSIYA I METODIKA INFORMATSIONNOI RABOTY
NAU T INF 2	NAUCHNO-TEKHNICHESKAYA INFORMATSIYA. SERIYA 2. INFORMATSIONNYE PROTSESSY I SISTEMY
NAV ENG J	NAVAL ENGINEERS JOURNAL
NAV RES LOG	NAVAL RESEARCH LOGISTICS QUARTERLY
NAV RES REV	NAVAL RESEARCH REVIEWS
NBS MONOGR	NATIONAL BUREAU OF STANDARDS. MONOGRAPHS
NEC RES DEV	NEC RESEARCH AND DEVELOPMENT
NEMATOLOGIC	NEMATOLOGICA
NEOPLASMA	NEOPLASMA
NEPHRON	NEPHRON
NERVENARZT	NERVENARZT
NETH MILK D	NETHERLANDS MILK AND DAIRY JOURNAL. NEDERLANDS MELK- EN ZUIVELTIJDSCHRIFT
NEURO-CHIRE	NEURO-CHIRURGIE
NEUROCHIRA	NEUROCHIRURGIA
NEUROENDOCR	NEUROENDOCRINOLOGY
NEUROLOGY	NEUROLOGY
NEUROPADIAT	NEUROPADIATRIE
NEUROPHARM	NEUROPHARMACOLOGY
NEUROPSYCHO	NEUROPSYCHOLOGIA
NEURORADIOL	NEURORADIOLOGY
NEW PHYTOL	NEW PHYTOLOGIST
NIP KAG KAI	NIPPON KAGAKU KAISHI
NIP KAG ZAS	NIPPON KAGAKU ZASSHI
NON-DESTR T	NON-DESTRUCTIVE TESTING
NORD VETMED	NORDISK VETERINAER MEDICIN
NORSK SKOG	NORSK SKOGINDUSTRI
NOT AM MATH	NOTICES OF THE AMERICAN MATHEMATICAL SOCIETY
NOUV PRESSE	NOUVELLE PRESSE MEDICALE
NOUV RF HEM	NOUVELLE REVUE FRANCAISE D HEMATOLOGIE
NUCL ENG DE	NUCLEAR ENGINEERING AND DESIGN
NUCL ENG IN	NUCLEAR ENGINEERING INTERNATIONAL
NUCL FUSION	NUCLEAR FUSION

STR	NUCLEAR INSTRUMENTS AND METHODS
D	NUCLEAR-MEDIZIN. NUCLEAR MEDICINE MEDECINE NUCLEAIRE
YS A	NUCLEAR PHYSICS A
YS B	NUCLEAR PHYSICS B
FETY	NUCLEAR SAFETY
EN	NUCLEAR SCIENCE AND ENGINEERING
CH	NUCLEAR TECHNOLOGY
	NUCLEUS
MATH	NUMERISCHE MATHEMATIK
A	NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA. A
B	NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA. B
TAB	NUTRITION AND METABOLISM
P IN	NUTRITION REPORTS INTERNATIONAL
V	NUTRITION REVIEWS
MED	NEW YORK STATE JOURNAL OF MEDICINE
	NEW ZEALAND JOURNAL OF AGRICULTURE
R RE	NEW ZEALAND JOURNAL OF AGRICULTURAL RESEARCH
OL	NEW ZEALAND JOURNAL OF GEOLOGY AND GEOPHYSICS
	NEW ZEALAND JOURNAL OF SCIENCE
J	NEW ZEALAND MEDICAL JOURNAL
TORY	OBSERVATORY
GYN	OBSTETRICS AND GYNECOLOGY
NG	OCEAN ENGINEERING
INT	OCEANOLOGY INTERNATIONAL
OG R	OCEANOLOGY, USSR
	OCEANS
ANTA	OECOLOGIA PLANTARVM
IA	OECOLOGIA
	OIKOS
MAG	OMR-ORGANIC MAGNETIC RESONANCE
Y	ONCOLOGY
R Q	OPERATIONAL RESEARCH QUARTERLY
RES	OPERATIONS RESEARCH
RES	OPHTHALMIC RESEARCH
MOLA	OPHTHALMOLOGICA
	OPTICAL ENGINEERING
CT R	OPTICS AND SPECTROSCOPY, USSR
KTRO	OPTIKA I SPEKTROSKOPIYA
CTA	OPTICA ACTA
	OPTIK
RG O	ORAL SURGERY, ORAL MEDICINE, AND ORAL PATHOLOGY
RE A	ORGANOMETALLIC CHEMISTRY REVIEWS. SECTION A. SUBJECT REVIEWS
RE B	ORGANOMETALLIC CHEMISTRY REVIEWS. SECTION B. ANNUAL SURVEYS
SYN	ORGANOMETALLICS IN CHEMICAL SYNTHESIS
S SP	ORGANIC MASS SPECTROMETRY
O R	ORL-JOURNAL FOR OTO-RHINO-LARYNGOLOGY & ITS BORDERLANDS
OT Z	OSTERREICHISCHE BOTANISCHE ZEITSCHRIFT
MB R	OXIDATION AND COMBUSTION REVIEWS
TAL	OXIDATION OF METALS
T S	PROCEEDINGS OF THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
S CA	PROCEEDINGS OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH
ATH S	PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY
BIOC	PROCEEDINGS OF THE AUSTRALIAN BIOCHEMICAL SOCIETY
TISS	PROCEEDINGS OF AN INTERNATIONAL SYMPOSIUM ON CALCIFIED TISSUES, DENTAL AND SURGICAL MATERIALS AND TISSUE MATERIAL INTERACTIONS
PHIL	PROCEEDINGS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY. MATHEMATICAL AND PHYSICAL SCIENCES
MATH	PROCEEDINGS OF THE EDINBURGH MATHEMATICAL SOCIETY
MP C	PROCEEDINGS. ELECTRONIC COMPONENTS CONFERENCE
ONT	PROCEEDINGS OF THE ENTOMOLOGICAL SOCIETY OF ONTARIO
WAS	PROCEEDINGS OF THE ENTOMOLOGICAL SOCIETY OF WASHINGTON
AS C	PROCEEDINGS OF THE GEOLOGICAL ASSOCIATION OF CANADA
I EN	PROCEEDINGS OF THE HAWAIIAN ENTOMOLOGICAL SOCIETY
SOC	PROCEEDINGS OF THE HELMINTHOLOGICAL SOCIETY OF WASHINGTON
I B	PROCEEDINGS OF THE INDIAN ACADEMY OF SCIENCES. SECTION B
E 1	PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS PART 1. DESIGN AND CONSTRUCTION
E 2	PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS PART 2. RESEARCH AND THEORY
ENG	PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS
OND	PROCEEDINGS OF THE INSTITUTION OF ELECTRICAL ENGINEERS, LONDON
	PROCEEDINGS OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
CAD	PROCEEDINGS OF THE JAPAN ACADEMY
NED A	PROCEEDINGS OF THE KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN. SERIES A. MATHEMATICAL SCIENCES
P KON NED B	PROCEEDINGS OF THE KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN. SERIES B. PHYSICAL SCIENCES
P KON NED C	PROCEEDINGS OF THE KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN. SERIES C. BIOLOGICAL AND MEDICAL SCIENCES
P LOND MATH	PROCEEDINGS OF THE LONDON MATHEMATICAL SOCIETY
P NAS IND A	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, INDIA. SECTION A. PHYSICAL SCIENCES
P NAS IND B	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, INDIA. SECTION B. BIOLOGICAL SCIENCES
P NAS US	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA
P NUTR SOC	PROCEEDINGS OF THE NUTRITION SOCIETY
P R IR AC A	PROCEEDINGS OF THE ROYAL IRISH ACADEMY. SECTION A. MATHEMATICAL, ASTRONOMICAL, AND PHYSICAL SCIENCE
P R IR AC B	PROCEEDINGS OF THE ROYAL IRISH ACADEMY. SECTION B. BIOLOGICAL GEOLOGICAL AND CHEMICAL SCIENCE
P R VIRCH M	PROCEEDINGS OF THE RUDOLF VIRCHOW MEDICAL SOCIETY IN THE CITY OF NEW YORK
P ROY S MED	PROCEEDINGS OF THE ROYAL SOCIETY OF MEDICINE
P ROY SOC A	PROCEEDINGS OF THE ROYAL SOCIETY. LONDON. SERIES A. MATHEMATICAL AND PHYSICAL SCIENCES
P ROY SOC B	PROCEEDINGS OF THE ROYAL SOCIETY. SERIES B. BIOLOGICAL SCIENCES
P RS EDIN A	PROCEEDINGS OF THE ROYAL SOCIETY OF EDINBURGH. SECTION A. MATHEMATICAL AND PHYSICAL SCIENCES
P RS EDIN B	PROCEEDINGS OF THE ROYAL SOCIETY OF EDINBURGH. SECTION B. BIOLOGY
P SOC EXP M	PROCEEDINGS OF THE SOCIETY FOR EXPERIMENTAL BIOLOGY AND MEDICINE
P U OTAGO M	PROCEEDINGS OF THE UNIVERSITY OF OTAGO MEDICAL SCHOOL
P WEST PH S	PROCEEDINGS OF THE WESTERN PHARMACOLOGY SOCIETY
PAC INSECTS	PACIFIC INSECTS
PAC J MATH	PACIFIC JOURNAL OF MATHEMATICS
PAC SCI	PACIFIC SCIENCE
PADIATR PAD	PADIATRIE UND PADOLOGIE
PALAEOGEO P	PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY
PAN PAC ENT	PAN-PACIFIC ENTOMOLOGIST
PAP MET GEO	PAPERS IN METEOROLOGY AND GEOPHYSICS
PAP PUU	PAPERI JA PUU. PAPPER OCH TRA
PAP TECHNOL	PAPER TECHNOLOGY
PAPIER	PAPIER
PARASITOL	PARASITOLOGY
PATH BIOL	PATHOLOGIE ET BIOLOGIE
PATH EUROP	PATHOLOGIA EUROPAEA
PATH MICROB	PATHOLOGIA ET MICROBIOLOGIA, AND SUPPLEMENTUM
PATHOLOGY	PATHOLOGY
PATOLOGIA	PATOLOGIA
PATT RECOG	PATTERN RECOGNITION
PCM PCE	PHOTO CHEMICAL MACHINING PHOTO CHEMICAL ETCHING
PED CLIN NA	PEDIATRIC CLINICS OF NORTH AMERICA
PEDIAT RES	PEDIATRIC RESEARCH
PEDIATRICS	PEDIATRICS
PEDOBIOLOG	PEDOBIOLOGIA
PER BIOL	PERIODICUM BIOLOGORUM
PER POLY CE	PERIODICA POLYTECHNICA. CHEMICAL ENGINEERING
PER POLY EE	PERIODICA POLYTECHNICA. ELECTRICAL ENGINEERING
PER POLY ME	PERIODICA POLYTECHNICA. MECHANICAL ENGINEERING
PERC MOT SK	PERCEPTUAL AND MOTOR SKILLS
PERC PSYCH	PERCEPTION AND PSYCHOPHYSICS
PERS PSYCH	PERSONNEL PSYCHOLOGY
PERSONNEL	PERSONNEL
PERSP BIOL	PERSPECTIVES IN BIOLOGY AND MEDICINE
PEST BIOCH	PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY
PEST CONTRO	PEST CONTROL
PEST MON J	PESTICIDES MONITORING JOURNAL
PETR CHEM R	PETROLEUM CHEMISTRY, USSR
PFLUG ARCH	PFLUGERS ARCHIV. EUROPEAN JOURNAL OF PHYSIOLOGY
PHARM ACT H	PHARMACEUTICA ACTA HELVETIAE
PHARM PRAX	PHARMAZEUTISCHE PRAXIS, BEILAGE ZUR ZEITSCHRIFT DIE PHARMAZIE
PHARM REV	PHARMACOLOGICAL REVIEWS
PHARMACOL	PHARMACOLOGY
PHARMACOL R	PHARMACOLOGICAL RESEARCH COMMUNICATIONS
PHARMACOLOG	PHARMACOLOGIST
PHARMAKOPSY	PHARMAKOPSYCHIATRIE NEURO-PSYCHOPHARMAKOLOGIE
PHARMAZIE	PHARMAZIE
PHI T ROY A	PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON. SERIES A. MATHEMATICAL AND PHYSICAL SCIENCES
PHI T ROY B	PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON. SERIES B. BIOLOGICAL SCIENCES
PHIL RES R	PHILIPS RESEARCH REPORTS AND SUPPLEMENT
PHIL TECH R	PHILIPS TECHNICAL REVIEW
PHILOS MAG	PHILOSOPHICAL MAGAZINE
PHILOS SCI	PHILOSOPHY OF SCIENCE
PHONETICA	PHONETICA
PHOT SCI EN	PHOTOGRAPHIC SCIENCE AND ENGINEERING
PHOTOCHEM P	PHOTOCHEMISTRY AND PHOTOBIOLOGY
PHOTOGR ENG	PHOTOGRAMMETRIC ENGINEERING
PHOTOGRAMMA	PHOTOGRAMMETRIA
PHOTOSYNTHE	PHOTOSYNTHETICA
PHYS C GLAS	PHYSICS AND CHEMISTRY OF GLASSES
PHYS FLUIDS	PHYSICS OF FLUIDS
PHYS KOND M	PHYSIK DER KONDENSIERTEN MATERIE
PHYS LETT A	PHYSICS LETTERS
PHYS LETT B	PHYSICS LETTERS
PHYS MED BI	PHYSICS IN MEDICINE AND BIOLOGY
PHYS MET R	PHYSICS OF METALS AND METALLOGRAPHY, USSR
PHYS NORVEG	PHYSICA NORVEGICA
PHYS REV A	PHYSICAL REVIEW A. GENERAL PHYSICS
PHYS REV B	PHYSICAL REVIEW B. SOLID STATE
PHYS REV C	PHYSICAL REVIEW C. NUCLEAR PHYSICS
PHYS REV D	PHYSICAL REVIEW D. PARTICLES AND FIELDS
PHYS REV L	PHYSICAL REVIEW LETTERS
PHYS SCR	PHYSICA SCRIPTA
PHYS ST S-A	PHYSICA STATUS SOLIDI. A APPLIED RESEARCH
PHYS ST S-B	PHYSICA STATUS SOLIDI. B BASIC RESEARCH
PHYS TODAY	PHYSICS TODAY
PHYSICA	PHYSICA
PHYSIOL REV	PHYSIOLOGICAL REVIEWS
PHYSL BEHAV	PHYSIOLOGY AND BEHAVIOR
PHYSL BOHEM	PHYSIOLOGIA BOHEMOSLOVACA
PHYSL CHEM	PHYSIOLOGICAL CHEMISTRY AND PHYSICS
PHYSL PL P	PHYSIOLOGICAL PLANT PATHOLOGY
PHYSL PLANT	PHYSIOLOGIA PLANTARUM
PHYSL VEGET	PHYSIOLOGIE VEGETALE
PHYSL ZOOL	PHYSIOLOGICAL ZOOLOGY
PHYTOCHEM	PHYTOCHEMISTRY
PHYTOMA	PHYTOMA
PHYTOMORPH	PHYTOMORPHOLOGY
PHYTON	PHYTON
PHYTON AUST	PHYTON. ANNALES REI BOTANICAE
PHYTOPATHOL	PHYTOPATHOLOGY
PIPE GAS J	PIPELINE AND GAS JOURNAL
PLANET SPAC	PLANETARY AND SPACE SCIENCE
PLANT CEL P	PLANT AND CELL PHYSIOLOGY
PLANT DIS R	PLANT DISEASE REPORTER
PLANT PATH	PLANT PATHOLOGY
PLANT PHYSL	PLANT PHYSIOLOGY
PLANT SOIL	PLANT AND SOIL
PLANTA	PLANTA
PLANTA MED	PLANTA MEDICA
PLAS R SURG	PLASTIC AND RECONSTRUCTIVE SURGERY
PLASMA PHYS	PLASMA PHYSICS
PLAST POLYM	PLASTICS AND POLYMERS
PLAST WORLD	PLASTICS WORLD
PLASTICA	PLASTICA
PNEUMONOL-P	PNEUMONOLOGIE-PNEUMONOLOGY
POINT P COM	POINT TO POINT COMMUNICATIONS
POL REV RAD	POLISH REVIEW OF RADIOLOGY AND NUCLEAR MEDICINE
POLI SCI Q	POLITICAL SCIENCE QUARTERLY
POLYM ENG S	POLYMER ENGINEERING AND SCIENCE
POLYM J	POLYMER JOURNAL
POLYMER	POLYMER
POST BIOCH	POSTEPY BIOCHEMII
POST O EE J	POST OFFICE ELECTRICAL ENGINEERS JOURNAL
POSTG MED J	POSTGRADUATE MEDICAL JOURNAL
POSTGR MED	POSTGRADUATE MEDICINE
POULTRY SCI	POULTRY SCIENCE
POWD METALL	POWDER METALLURGY
POWD TECH	POWDER TECHNOLOGY
POWER ENG	POWER ENGINEERING
PRAC OTO-RH	PRACTICA OTO-RHINO-LARYNGOLOGICA
PRACTITION	PRACTITIONER
PREP BIOCH	PREPARATIVE BIOCHEMISTRY
PRIB TEKHN	PRIBORY I TEKHNIKA EKSPERIMENTA
PRIKL MAT	PRIKLADNAYA MATEMATIKA I MEKHANIKA
PRIMATOLOG	PRIMATOLOGIA
PROCESS BIO	PROCESS BIOCHEMISTRY
PROCESS TEC	PROCESS TECHNOLOGY
PROD P PHAR	PRODUITS ET PROBLEMES PHARMACEUTIQUES
PROG ALLERG	PROGRESS IN ALLERGY
PROG EX TUM	PROGRESS IN EXPERIMENTAL TUMOR RESEARCH
PROG FISH-C	PROGRESSIVE FISH-CULTURIST
PROG MAT SC	PROGRESS IN MATERIALS SCIENCE
PROG MED GE	PROGRESS IN MEDICAL GENETICS
PROG MED VI	PROGRESS IN MEDICAL VIROLOGY
PROG OCEAN	PROGRESS IN OCEANOGRAPHY
PROG SURG	PROGRESS IN SURGERY
PROG T PHYS	PROGRESS OF THEORETICAL PHYSICS
PROSTAGLAND	PROSTAGLANDINS
PROTOPLASMA	PROTOPLASMA
PRZEMYS CHEM	PRZEMYSL CHEMICZNY
PSYCH PRAX	PSYCHOLOGISCHE PRAXIS
PSYCHIAT CL	PSYCHIATRIA CLINICA
PSYCHIAT NE	PSYCHIATRIA NEUROLOGIA NEUROCHIRURGIA
PSYCHIAT Q	PSYCHIATRIC QUARTERLY
PSYCHIATRY	PSYCHIATRY
PSYCHOAN RE	PSYCHOANALYTIC REVIEW
PSYCHOL AFR	PSYCHOLOGIA AFRICANA
PSYCHOL B	PSYCHOLOGICAL BULLETIN AND MONOGRAPH SUPPLEMENT
PSYCHOL FOR	PSYCHOLOGISCHE FORSCHUNG
PSYCHOL ISS	PSYCHOLOGICAL ISSUES
PSYCHOL MED	PSYCHOLOGICAL MEDICINE
PSYCHOL REC	PSYCHOLOGICAL RECORD
PSYCHOL REP	PSYCHOLOGICAL REPORTS
PSYCHOL REV	PSYCHOLOGICAL REVIEW
PSYCHOL STU	PSYCHOLOGICAL STUDIES
PSYCHOL TOD	PSYCHOLOGY TODAY
PSYCHOMETRI	PSYCHOMETRIKA AND SUPPLEMENTS
PSYCHON SCI	PSYCHONOMIC SCIENCE
PSYCHOPHARM	PSYCHOPHARMACOLOGIA
PSYCHOPHYSL	PSYCHOPHYSIOLOGY
PSYCHOS MED	PSYCHOSOMATIC MEDICINE
PSYCHOSOMAT	PSYCHOSOMATICS
PSYCHOTH PS	PSYCHOTHERAPY AND PSYCHOSOMATICS
PUB AST S J	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN
PUB AST S P	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC
PUB DOM AST	PUBLICATIONS OF THE DOMINION ASTROPHYSICAL OBSERVATORY VICTORIA, B.C.
PUBL HEAL	PUBLIC HEALTH. THE JOURNAL OF THE SOCIETY OF MEDICAL OFFICERS OF HEALTH
PUBL OPIN Q	PUBLIC OPINION QUARTERLY
PUBL ROADS	PUBLIC ROADS
PULP PAPER	PULP AND PAPER MAGAZINE OF CANADA
PUMPS	PUMPS AND THEIR APPLICATIONS
PUR A GEOPH	PURE AND APPLIED GEOPHYSICS
Q APPL MATH	QUARTERLY OF APPLIED MATHEMATICS
Q J EXP PHY	QUARTERLY JOURNAL OF EXPERIMENTAL PHYSIOLOGY AND COGNATE MEDICAL SCIENCES
Q J EXP PSY	QUARTERLY JOURNAL OF EXPERIMENTAL PSYCHOLOGY
Q J MATH	QUARTERLY JOURNAL OF MATHEMATICS
Q J MECH AP	QUARTERLY JOURNAL OF MECHANICS AND APPLIED MATHEMATICS
Q J MED	QUARTERLY JOURNAL OF MEDICINE
Q J R ASTRO	QUARTERLY JOURNAL OF THE ROYAL ASTRONOMICAL SOCIETY
Q J R METEO	QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL SOCIETY
Q J STUD AL	QUARTERLY JOURNAL OF STUDIES ON ALCOHOL
Q REV BIOL	QUARTERLY REVIEW OF BIOLOGY
Q REV BIOPH	QUARTERLY REVIEW OF BIOPHICS
Q REVIEWS	QUARTERLY REVIEWS
QUAL PLANT	QUALITAS PLANTARUM ET MATERIAE VEGETABILES
RAD CLIN	RADIOLOGIA CLINICA ET BIOLOGICA
RAD CLIN NA	RADIOLOGIC CLINICS OF NORTH AMERICA
RAD DIAGN	RADIOLOGIA DIAGNOSTICA
RAD HE DATA	RADIOLOGICAL HEALTH DATA AND REPORTS
RAD RAD FIS	RADIOBIOLOGIA, RADIOTERAPIA E FISICA MEDICA
RAD RES REV	RADIATION RESEARCH REVIEWS
RADIAT BOT	RADIATION BOTANY
RADIAT DATA	RADIATION DATA AND REPORTS
RADIAT RES	RADIATION RESEARCH
RADIO EL EN	RADIO AND ELECTRONIC ENGINEER
RADIO ENG R	RADIO ENGINEERING AND ELECTRONIC PHYSICS, USSR
RADIO SCI	RADIO SCIENCE
RADIOCARBON	RADIOCARBON
RADIOCH ACT	RADIOCHIMICA ACTA
RADIOLOGE	RADIOLOGE
RADIOLOGY	RADIOLOGY
RADIOTEK EL	RADIOTEKHNIKA I ELEKTRONIKA
RCA REVIEW	RCA REVIEW
REACT TECH	REACTOR TECHNOLOGY
REC CHEM PR	RECORD OF CHEMICAL PROGRESS
REC TR CHIM	RECUEIL DES TRAVAUX CHIMIQUES DES PAYS-BAS
RECH AEROSP	RECHERCHE AEROSPATIALE
RECHERCHE	RECHERCHE
RECLAM ERA	RECLAMATION ERA
RECONS SURG	RECONSTRUCTION SURGERY AND TRAUMATOLOGY
REFRACTOR J	REFRACTORIES JOURNAL
REFRIG AIR	REFRIGERATION AND AIR CONDITIONING
REND ROM GA	RENDICONTI ROMANI DI GASTRO-ENTEROLOGIA
REP ION SPA	REPORT OF IONOSPHERE AND SPACE RESEARCH IN JAPAN
REP NRL PRO	REPORT OF NRL PROGRESS

REP PR PHYS	REPORTS ON PROGRESS IN PHYSICS
RES COMM CP	RESEARCH COMMUNICATIONS IN CHEMICAL PATHOLOGY AND PHARMACOLOGY
RES DEVELOP	RESEARCH/DEVELOPMENT
RES EXP MED	RESEARCH IN EXPERIMENTAL MEDICINE
RES MANAG	RESEARCH MANAGEMENT
RES VET SCI	RESEARCH IN VETERINARY SCIENCE
RESP PHYSL	RESPIRATION PHYSIOLOGY
RESPIRATION	RESPIRATION
REV CAN BIO	REVUE CANADIENNE DE BIOLOGIE
REV CHIM MI	REVUE DE CHIMIE MINERALE
REV CHIR OR	REVUE DE CHIRURGIE ORTHOPEDIQUE ET REPARATRICE DE L APPAREIL MOTEUR
REV EL COMM	REVIEW OF THE ELECTRICAL COMMUNICATION LABORATORY
REV EPIDEM	REVUE D EPIDEMIOLOGIE MEDECINE SOCIALE ET SANTE PUBLIQUE
REV ESP FIS	REVISTA ESPANOLA DE FISIOLOGIA
REV EUR ETU	REVUE EUROPEENNE D ETUDES CLINIQUES ET BIOLOGIQUE
REV F GY OB	REVUE FRANCAISE DE GYNECOLOGIE ET D OBSTETRIQUE
REV FR ALLE	REVUE FRANCAISE D ALLERGOLOGIE
REV FR AUTO	REVUE FRANCAISE D AUTOMATIQUE INFORMATIQUE RECHERCHE OPERATIONNELLE
REV FR INF	REVUE FRANCAISE D INFORMATIQUE ET DE RECHERCHE OPERATIONNELLE
REV FR TSAN	REVUE FRANCAISE DE TRANSFUSION
REV G THERM	REVUE GENERALE DE THERMIQUE
REV GEOG PH	REVUE DE GEOGRAPHIE PHYSIQUE ET DE GEOLOGIE DYNAMIQUE
REV GEOPHYS	REVIEWS OF GEOPHYSICS AND SPACE PHYSICS
REV I F PET	REVUE DE L INSTITUT FRANCAIS DU PETROLE ET ANNALES DES COMBUSTIBLES LIQUIDES
REV IMMUNOL	REVUE D IMMUNOLOGIE
REV IN HAUT	REVUE INTERNATIONALE DES HAUTES TEMPERATURES ET DES REFRACTAIRES
REV INF MED	REVUE D INFORMATIQUE MEDICALE
REV INV CLI	REVISTA DE INVESTIGACION CLINICA
REV M PHYS	REVIEWS OF MODERN PHYSICS
REV MED CHI	REVISTA MEDICA DE CHILE
REV METALL	REVUE DE METALLURGIE
REV NEUROL	REVUE NEUROLOGIQUE
REV PA CHEM	REVIEWS OF PURE AND APPLIED CHEMISTRY
REV PALAE P	REVIEW OF PALAEOBOTANY AND PALYNOLOGY
REV PH CH J	REVIEW OF PHYSICAL CHEMISTRY OF JAPAN
REV PHYS AP	REVUE DE PHYSIQUE APPLIQUEE
REV PO QUIM	REVISTA PORTUGUESA DE QUIMICA
REV RHUM	REVUE DU RHUMATISME ET DES MALADIES OSTEO-ARTICULAIRES
REV RO BIOC	REVUE ROUMAINE DE BIOCHIMIE
REV RO CHIM	REVUE ROUMAINE DE CHIMIE
REV RO PHYS	REVUE ROUMAINE DE PHYSIQUE
REV SCI INS	REVIEW OF SCIENTIFIC INSTRUMENTS
REV ZOO AGR	REVUE DE ZOOLOGIE AGRICOLE ET DE PATHOLOGIE VEGETALE
RIC MAT	RICERCHE DI MATEMATICA
RIV ITAL GE	RIVISTA ITALIANA DI GEOFISICA
RIV MED AER	RIVISTA DI MEDICINA AERONAUTICA E SPAZIALE
RIV METEO A	RIVISTA DI METEOROLOGIA AERONAUTICA
ROCZN CHEM	ROCZNIKI CHEMII
RUBBER AGE	RUBBER AGE
RURAL SOCIO	RURAL SOCIOLOGY
RUSS EN J R	RUSSIAN ENGINEERING JOURNAL, USSR
RUSS J PH R	RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY, USSR
RUSS MET R	RUSSIAN METALLURGY /METALLY/ USSR
S AFR MED J	SOUTH AFRICAN MEDICAL JOURNAL
SABOURAUDIA	SABOURAUDIA
SAE J A ENG	SAE JOURNAL OF AUTOMOTIVE ENGINEERS
SAE PR TECH	SAE PROGRESS IN TECHNOLOGY
SAE TRANS	SAE TRANSACTIONS
SAM ADV MAN	SAM ADVANCED MANAGEMENT JOURNAL
SARSIA	SARSIA
SB LEKAR	SBORNIK LEKARSKY
SC J CL INV	SCANDINAVIAN JOURNAL OF CLINICAL AND LABORATORY INVESTIGATION
SC J DENT R	SCANDINAVIAN JOURNAL OF DENTAL RESEARCH
SC J GASTR	SCANDINAVIAN JOURNAL OF GASTROENTEROLOGY
SC J HAEMAT	SCANDINAVIAN JOURNAL OF HAEMATOLOGY
SC J PLAST	SCANDINAVIAN JOURNAL OF PLASTIC AND RECONSTRUCTIVE SURGERY
SC J PSYCHO	SCANDINAVIAN JOURNAL OF PSYCHOLOGY
SC J RESP D	SCANDINAVIAN JOURNAL OF RESPIRATORY DISEASES
SC J UROL N	SCANDINAVIAN JOURNAL OF UROLOGY AND NEPHROLOGY
SCH COMMUN	SCHOOL AND COMMUNITY
SCHW MED WO	SCHWEIZERISCHE MEDIZINISCHE WOCHENSCHRIFT
SCI AM	SCIENTIFIC AMERICAN
SCI FORUM	SCIENCE FORUM
SCI HORT	SCIENTIFIC HORTICULTURE
SCI LIGHT	SCIENCE OF LIGHT
SCI PROGR	SCIENCE PROGRESS
SCI R TOH A	SCIENCE REPORTS OF THE RESEARCH INSTITUTES TOHOKU UNIVERSITY. SERIES A. PHYSICS, CHEMISTRY AND METALLURGY
SCI STUD	SCIENCE STUDIES
SCIENCE	SCIENCE
SCIENTIA	SCIENTIA
SCOT MED J	SCOTTISH MEDICAL JOURNAL
SCRIP MATH	SCRIPTA MATHEMATICA
SCRIP METAL	SCRIPTA METALLURGICA
SEA FRONT	SEA FRONTIERS
SEARCH	SEARCH
SEDIMENT GE	SEDIMENTARY GEOLOGY
SEDIMENTOL	SEDIMENTOLOGY
SEIKAGAKU	SEIKAGAKU
SEM HEMATOL	SEMINARS IN HEMATOLOGY
SEM HOP PAR	SEMAINE DES HOPITAUX
SEM PSYCHIA	SEMINARS IN PSYCHIATRY
SEM ROENTG	SEMINARS IN ROENTGENOLOGY
SEPARAT SCI	SEPARATION SCIENCE
SIAM J A MA	SIAM JOURNAL ON APPLIED MATHEMATICS
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SIAM J NUM	SIAM JOURNAL ON NUMERICAL ANALYSIS
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SID INT S D	SID INTERNATIONAL SYMPOSIUM DIGEST OF TECHNICAL PAPERS
SILIKATY	SILIKATY
SIMULATION	SIMULATION
SKY TELESC	SKY AND TELESCOPE
SOAP COSMET	SOAP/COSMETICS/CHEMICAL SPECIALTIES
SOC PET E J	SOCIETY OF PETROLEUM ENGINEERS JOURNAL
SOC SCI LOD	SOCIETATIS SCIENTIARUM LODZIENSIS ACTA CHIMICA
SOCIAL BIOL	SOCIAL BIOLOGY
SOCIAL FORC	SOCIAL FORCES
SOCIAL PROB	SOCIAL PROBLEMS
SOCIAL PSY	SOCIAL PSYCHIATRY
SOCIAL SC M	SOCIAL SCIENCE AND MEDICINE
SOCIOL EDUC	SOCIOLOGY OF EDUCATION
SOCIOL INQ	SOCIOLOGICAL INQUIRY
SOCIOL SOC	SOCIOLOGY AND SOCIAL RESEARCH
SOCIOLOGY	SOCIOLOGY THE JOURNAL OF THE BRITISH SOCIOLOGICAL ASSOCIATION
SOCIOMETRY	SOCIOMETRY
SOIL CONS	SOIL CONSERVATION
SOIL SCI	SOIL SCIENCE
SOIL SCI SO	SOIL SCIENCE SOCIETY OF AMERICA PROCEEDINGS
SOL ST COMM	SOLID STATE COMMUNICATIONS
SOL ST ELEC	SOLID-STATE ELECTRONICS
SOL ST TECH	SOLID STATE TECHNOLOGY
SOLAR ENERG	SOLAR ENERGY
SOLAR PHYS	SOLAR PHYSICS
SOUTH MED J	SOUTHERN MEDICAL JOURNAL
SOV ASTRO R	SOVIET ASTRONOMY AJ, USSR
SOV AT EN R	SOVIET ATOMIC ENERGY, USSR
SOV J NUC R	SOVIET JOURNAL OF NUCLEAR PHYSICS USSR
SOV MED	SOVETSKAIYA MEDITSINA
SOV NEUR R	SOVIET NEUROLOGY AND PSYCHIATRY, USSR
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SOV PH SE R	SOVIET PHYSICS SEMICONDUCTORS, USSR
SOV PH SS R	SOVIET PHYSICS SOLID STATE, USSR
SOV PH TP R	SOVIET PHYSICS TECHNICAL PHYSICS, USSR
SOV PH US R	SOVIET PHYSICS USPEKHI, USSR
SOV PSYCO R	SOVIET PSYCHOLOGY, USSR
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SOV SOIL R	SOVIET SOIL SCIENCE, USSR
SPACE LIFE	SPACE LIFE SCIENCES
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SPACEFLIGHT	SPACEFLIGHT
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SPECT ACT A	SPECTROCHIMICA ACTA. PART A. MOLECULAR SPECTROSCOPY
SPECT ACT B	SPECTROCHIMICA ACTA. PART B. ATOMIC SPECTROSCOPY
SPECT LETT	SPECTROSCOPY LETTERS
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STAIN TECH	STAIN TECHNOLOGY
STARKE	STARKE
STEEL USSR	STEEL IN THE USSR
STEROIDS	STEROIDS
STRAHLENTHE	STRAHLENTHERAPIE
STU CER FIZ	STUDII SI CERCETARI DE FIZICA
STUD APPL M	STUDIES IN APPLIED MATHEMATICS
STUD GEOPH	STUDIA GEOPHYSICA ET GEODAETICA
STUD MATH	STUDIA MATHEMATICA
SUGAR J	SUGAR JOURNAL
SUMITOMO SE	SUMITOMO SEARCH
SUOM KEMIST	SUOMEN KEMISTILEHTI
SUPP PR T P	SUPPLEMENT OF THE PROGRESS OF THEORETICAL PHYSICS
SURF SCI	SURFACE SCIENCE
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SURG ITAL	SURGERY IN ITALY
SURGERY	SURGERY
SVENS PAP T	SVENSK PAPPERSTIDNING
SYM BOT UPS	SYMBOLAE BOTANICAE UPSALIENSES
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T AM GEOPHY	TRANSACTIONS. AMERICAN GEOPHYSICAL UNION
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T AM MICROS	TRANSACTIONS OF THE AMERICAN MICROSCOPICAL SOCIETY
T AM NUCL S	TRANSACTIONS OF THE AMERICAN NUCLEAR SOCIETY
T AM S ART	TRANSACTIONS, AMERICAN SOCIETY FOR ARTIFICIAL INTERNAL ORGANS
T ASAE	TRANSACTIONS OF THE ASAE
T BR BRY SO	TRANSACTIONS OF THE BRITISH BRYOLOGICAL SOCIETY
T BR MYCOL	TRANSACTIONS OF THE BRITISH MYCOLOGICAL SOCIETY
T IRON ST I	TRANSACTIONS OF THE IRON AND STEEL INSTITUTE OF JAPAN
T J BR CER	TRANSACTIONS AND JOURNAL OF THE BRITISH CERAMIC SOCIETY
T JAP I MET	TRANSACTIONS OF THE JAPAN INSTITUTE OF METALS
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T ROY ENT S	TRANSACTIONS OF THE ROYAL ENTOMOLOGICAL SOCIETY OF LONDON
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TALANTA	TALANTA
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TASM J AGR	TASMANIAN JOURNAL OF AGRICULTURE
TEC INF C A	TECHNICAL INFORMATION CENTER ADMINISTRATION
TEC MIT K F	TECHNISCHE MITTEILUNGEN KRUPP. FORSCHUNGSBERICHTE
TEC MIT K W	TECHNISCHE MITTEILUNGEN KRUPP. WERKSBERICHTE
TECHNOL REV	TECHNOLOGY REVIEW
TECHNOMET	TECHNOMETRICS
TECTONOPHYS	TECTONOPHYSICS
TEL RAD E R	TELECOMMUNICATIONS AND RADIO ENGINEERING, USSR
TELECOMM J	TELECOMMUNICATION JOURNAL
TELLUS	TELLUS
TENSOR	TENSOR
TEOR VEROYA	TEORIYA VEROYATNOSTEI I YEYE PRIMENENIYA
TERATOLOGY	TERATOLOGY
TETRAHEDR L	TETRAHEDRON LETTERS
TETRAHEDRON	TETRAHEDRON
TEX J SCI	TEXAS JOURNAL OF SCIENCE
TEX REP BIO	TEXAS REPORTS BIOLOGY AND MEDICINE AND SUPPLEMENT
TEXT I IND	TEXTILE INSTITUTE AND INDUSTRY
TEXT RES J	TEXTILE RESEARCH JOURNAL
TEXTILVERED	TEXTILVEREDLUNG
THEOR A GEN	THEORETICAL AND APPLIED GENETICS
THEOR CHIM	THEORETICA CHIMICA ACTA
THEOR POP B	THEORETICAL POPULATION BIOLOGY
THEOR PRO R	THEORY OF PROBABILITY AND ITS APPLICATIONS, USSR
THERAPIE	THERAPIE
THERM ENG R	THERMAL ENGINEERING, USSR
THIN FILMS	THIN FILMS
THIN SOL FI	THIN SOLID FILMS
THORAX	THORAX
THROMB DIAT	THROMBOSIS ET DIATHESIS HAEMORRHAGICA
TISSUE ANTI	TISSUE ANTIGENS
TISSUE CELL	TISSUE & CELL
TOH J EX ME	TOHOKU JOURNAL OF EXPERIMENTAL MEDICINE
TOX APPL PH	TOXICOLOGY AND APPLIED PHARMACOLOGY
TOXICON	TOXICON
TRAFFIC Q	TRAFFIC QUARTERLY
TRANSFUSION	TRANSFUSION
TRANSP RES	TRANSPORTATION RESEARCH
TRANSP THEO	TRANSPORT THEORY AND STATISTICAL PHYSICS
TRANSPLAN P	TRANSPLANTATION PROCEEDINGS
TRANSPLANT	TRANSPLANTATION
TRAV HUMAIN	TRAVAIL HUMAIN
TROP AGR	TROPICAL AGRICULTURE
TROP GEO ME	TROPICAL AND GEOGRAPHICAL MEDICINE
TROP SCI	TROPICAL SCIENCE
TSITOLOGIYA	TSITOLOGIYA
TUMORI	TUMORI
TURRIALBA	TURRIALBA
UAR J CHEM	UNITED ARAB REPUBLIC JOURNAL OF CHEMISTRY
UKR BIOKHIM	UKRAINSKII BIOKHIMICHESKII ZHURNAL
UKR KHIM ZH	UKRAINSKII KHIMICHESKII ZHURNAL
ULTRASONICS	ULTRASONICS
UN MED CAN	UNION MEDICALE DU CANADA
UNESCO B LI	UNESCO BULLETIN FOR LIBRARIES
UPSAL J MED	UPSALA JOURNAL OF MEDICAL SCIENCES
UROL INTERN	UROLOGIA INTERNATIONALIS
UROLOGE	UROLOGE
USBSFW R	UNITED STATES BUREAU OF SPORT FISHERIES AND WILDLIFE. RESEARCH REPORT
USP FIZ NAU	USPEKHI FIZICHESKIKH NAUK
USP KH	USPEKHI KHIMII
V MOSK U KH	VESTNIK MOSKOVSKOGO UNIVERSITETA SERIYA KHIMIYA
VACUUM	VACUUM
VAKUUM-TECH	VAKUUM-TECHNIK
VAN SSSR	VESTNIK AKADEMII NAUK SSSR
VET MED/SAC	VETERINARY MEDICINE/SMALL ANIMAL CLINICIAN
VET PATH	VETERINARY PATHOLOGY
VET REC	VETERINARY RECORD
VIDE	VIDE
VIE MILIE A	VIE ET MILIEU. SERIE A. BIOLOGIE MARINE
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VIE MILIE C	VIE ET MILIEU. SERIE C. BIOLOGIE TERRESTRE
VIRCH ARC A	VIRCHOWS ARCHIV. ABTEILUNG A. PATHOLOGISCHE ANATOMIE
VIRCH ARC B	VIRCHOWS ARCHIV. ABTEILUNG B. ZELL-PATHOLOGIE
VIROLOGY	VIROLOGY
VISION RES	VISION RESEARCH
VOP MED KH	VOPROSY MEDITSINSKOI KHIMII
VOP VIRUSOL	VOPROSY VIRUSOLOGII
VOX SANGUIN	VOX SANGUINIS
VYSO SOED A	VYSOKOMOLEKULYARNYE SOEDINENIYA. SECTION A
VYSO SOED B	VYSOKOMOLEKULYARNYE SOEDINENIYA. SECTION B
W ROUX ARCH	WILHELM ROUX ARCHIV FUR ENTWICKLUNGSMECHANIK DER ORGANISMEN
WATER RES	WATER RESEARCH
WATER RES R	WATER RESOURCES RESEARCH
WATER W ENG	WATER AND WATER ENGINEERING
WATER WASTE	WATER AND WASTES ENGINEERING
WEAR	WEAR
WEED RES	WEED RESEARCH
WEED SCI	WEED SCIENCE
WELD PROD R	WELDING PRODUCTION
WELD RES C	WELDING RESEARCH COUNCIL BULLETIN
WELDING J	WELDING JOURNAL
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WIRE	WIRE
WIREL WORLD	WIRELESS WORLD
WOOD SCI TE	WOOD SCIENCE AND TECHNOLOGY
WORLD FISH	WORLD FISHING
WORLD OIL	WORLD OIL
WORLD POULT	WORLDS POULTRY SCIENCE JOURNAL
WORLD REV P	WORLD REVIEW OF PEST CONTROL
WT Z IND FE	WERKSTATTSTECHNIK ZEITSCHRIFT FUR INDUSTRIELLE FERTIGUNG
XENOBIOTICA	XENOBIOTICA
YAKUGAKU ZA	YAKUGAKU ZASSHI
YALE J BIOL	YALE JOURNAL OF BIOLOGY AND MEDICINE
YON ACT MED	YONAGO ACTA MEDICA
Z ALLG MIKR	ZEITSCHRIFT FUR ALLGEMEINE MIKROBIOLOGIE
Z ANAL CHEM	ZEITSCHRIFT FUR ANALYTISCHE CHEMIE, FRESENIUS
Z ANAT ENTW	ZEITSCHRIFT FUR ANATOMIE UND ENTWICKLUNGSGESCHICHTE
Z ANG GEOL	ZEITSCHRIFT FUR ANGEWANDTE GEOLOGIE
Z ANG MA ME	ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK
Z ANG MATH	ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK
Z ANG PHYS	ZEITSCHRIFT FUR ANGEWANDTE PHYSIK
Z ANORG A C	ZEITSCHRIFT FUR ANORGANISCHE UND ALLGEMEINE CHEMIE
Z CHEM	ZEITSCHRIFT FUR CHEMIE
Z ERNAHRUNG	ZEITSCHRIFT FUR ERNAHRUNGSWISSENSCHAFT, AND SUPPLEMENTA
Z EXP A PSY	ZEITSCHRIFT FUR EXPERIMENTELLE UND ANGEWANDTE PSYCHOLOGIE

FLUGWISS	ZEITSCHRIFT FUR FLUGWISSENSCHAFTEN
GASTROENT	ZEITSCHRIFT FUR GASTROENTEROLOGIE
GES EXP M	ZEITSCHRIFT FUR DIE GESAMTE EXPERIMENTELLE MEDIZIN EINSCHLIESSLICH EXPERIMENTELLER CHIRURGIE
IMMUN EXP	ZEITSCHRIFT FUR IMMUNITATS-FORSCHUNG EXPERIMENTELLE UND KLINISCHE IMMUNOLOGIE
KIND CH G	ZEITSCHRIFT FUR KINDERCHIRURGIE UND GRENZGEBIETE
KINDERHEI	ZEITSCHRIFT FUR KINDERHEILKUNDE
KLIN CHEM	ZEITSCHRIFT FUR KLINISCHE CHEMIE UND KLINISCHE BIOCHEMIE
KREBSF KL	ZEITSCHRIFT FUR KREBSFORSCHUNG UND KLINISCHE ONKOLOGIE
KREISLAUF	ZEITSCHRIFT FUR KREISLAUFFORSCHUNG
KRISTALL	ZEITSCHRIFT FUR KRISTALLOGRAPHIE, KRISTALLGEOMETRIE, KRISTALLPHYSIK, KRISTALLCHEMIE
LEBENSMIT	ZEITSCHRIFT FUR LEBENSMITTEL-UNTERSUCHUNG UND-FORSCHUNG
MATH LOG	ZEITSCHRIFT FUR MATHEMATISCHE LOGIK UND GRUNDLAGEN DER MATHEMATIK
METALLKUN	ZEITSCHRIFT FUR METALLKUNDE
METEOROL	ZEITSCHRIFT FUR METEOROLOGIE
MORPH TIE	ZEITSCHRIFT FUR MORPHOLOGIE DER TIERE
NATURFO A	ZEITSCHRIFT FUR NATURFORSCHUNG. PART A. ASTROPHYSIK, PHYSIK UND PHYSIKALISCHE CHEMIE
NATURFO B	ZEITSCHRIFT FUR NATURFORSCHUNG. PART B. CHEMIE, BIOCHEMIE, BIOPHYSIK, BIOLOGIE UND VERWANDTEN GEBIETE
NEUROL	ZEITSCHRIFT FUR NEUROLOGIE
ORTHOP GR	ZEITSCHRIFT FUR ORTHOPADIE UND IHRE GRENZGEBIETE
PARASITEN	ZEITSCHRIFT FUR PARASITENKUNDE
PFLANZENP	ZEITSCHRIFT FUR PFLANZENPHYSIOLOGIE
PFLANZENZ	ZEITSCHRIFT FUR PFLANZENZUCHTUNG
PHYS	ZEITSCHRIFT FUR PHYSIK
PHYS CH F	ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE, FRANKFURT
PHYS CH L	ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE, LEIPZIG
RECHTSMED	ZEITSCHRIFT FUR RECHTSMEDIZIN. JOURNAL OF LEGAL MEDICINE
RHEUMAFOR	ZEITSCHRIFT FUR RHEUMAFORSCHUNG
TROP PARA	ZEITSCHRIFT FUR TROPENMEDIZIN UND PARASITOLOGIE
VER PHYSL	ZEITSCHRIFT FUR VERGLEICHENDE PHYSIOLOGIE
VERS KUND	ZEITSCHRIFT FUR VERSUCHSTIER KUNDE
WAHRSCH V	ZEITSCHRIFT FUR WAHRSCHEINLICHKEITSTHEORIE UND VERWANDTE GEBIETE
WISS ZOOL	ZEITSCHRIFT FUR WISSENSCHAFTLICHE ZOOLOGIE
ZELL MIKR	ZEITSCHRIFT FUR ZELLFORSCHUNG UND MIKROSKOPISCHE ANATOMIE
ZVOD LAB	ZAVODSKAYA LABORATORIYA
ZBL BAKT A	ZENTRALBLATT FUR BAKTERIOLOGIE, PARASITENKUNDE, INFEKTIONS-KRANKHEITEN UND HYGIENE ERSTE ABTEILUNG ORIGINALE. REIHE A. MEDIZINISCHE MIKROBIOLOGIE UND PARASITOLOGIE
ZBL BAKT B	ZENTRALBLATT FUR BAKTERIOLOGIE, PARASITENKUNDE, INFEKTIONS-KRANKHEITEN UND HYGIENE ERSTE ABTEILUNG ORIGINALE. REIHE B.
ZBL VET A	ZENTRALBLATT FUR VETERINARMEDIZIN REIHE A
ZBL VET B	ZENTRALBLATT FUR VETERINARMEDIZIN REIHE B
ZELL PAPIER	ZELLSTOFF UND PAPIER
ZH ANAL KH	ZHURNAL ANALITICHESKOI KHIMII
ZH EKSP TEO	ZHURNAL EKSPERIMENTAL NOI I TEORETICHESKOI FIZIKI
ZH FIZ KHIM	ZHURNAL FIZICHESKOI KHIMII
ZH MIKROB E	ZHURNAL MIKROBIOLOGII EPIDEMIOLOGII I IMMUNOBIOLOGII
ZH NEORG KH	ZHURNAL NEORGANICHESKOI KHIMII
ZH NP FOTOG	ZHURNAL NAUCHNOI I PRIKLADNOI FOTOGRAFII I KINEMATOGRAFII
ZH OBS BIOL	ZHURNAL OBSHCHEI BIOLOGII
ZH OBS KH	ZHURNAL OBSHCHEI KHIMII
ZH ORG KH	ZHURNAL ORGANICHESKOI KHIMII
ZH PRIK KH	ZHURNAL PRIKLADNOI KHIMII
ZH STRUK KH	ZHURNAL STRUKTURNOI KHIMII
ZH TEKH FIZ	ZHURNAL TEKHNICHESKOI FIZIKI
ZH VYSS NER	ZHURNAL VYSSHOI NERVNOI DEYATEL-NOSTI IMUNI I.P. PAVLOVA
ZOOL J LINN	ZOOLOGICAL JOURNAL OF THE LINNEAN SOCIETY
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AGRICULTURE & FOOD TECHNOLOGY

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AGR BIOL CH
AGR ECON RE
AGR EDUC MA
AGR ENG
AGR METEOR
AGR RES
AGR SCI REV
AGRICULTURE
AGROCHIMICA
AGRON J
AM DAIRY R
AM FRUIT GR
AM J AGR EC
AM J ENOL V
AM POTATO J
ANIM PRODUC
ANN AGRON
ANN TEC AGR
AUST J AGR
AUST J DAIR
AUST J SOIL
BR POULT SC
CALIF AGR
CAN FARM EC
CAN I FOOD
CEREAL CHEM
CEREAL SCI
CROP SCI
CROPS SOILS
DAIRY IND
EUPHYTICA
EXP AGRICUL
FAO PLANT
FARM CHEM
FARM Q
FEEDSTUFFS
FOOD COSMET
FOOD ENG
FOOD MANUF
FOOD TECHN
FOREIGN AGR
GARDEN J
GL BEE CULT
HILGARDIA
HORT RES
HORTICULT
I J AGR SCI
IIRB
INT J A AFF
IRISH J AGR
IRRAD ALIM
ISR J AGR R
J AGR CHE J
J AGR ENG R
J AGR FOOD
J AGR SCI
J AM S SUG
J ANIM SCI
J ARN ARBOR
J AUS I AGR
J DAIRY RES
J DAIRY SCI
J FOOD SCI
J I BREWING
J MILK FOOD
J RANGE MAN
J ROY AGR S
J SCI FOOD
J SOIL SCI
J SOIL WAT
J STORED PR
LANDBAU VOL
LANDBOUWMEC
LANDTECHNIK
LEBENSM IND
MITT B FORS
NETH MILK D
NZ J AGR
NZ J AGR RE
PEST CONTRO
PEST MON J
PHYTOPATHOL
PLANT SOIL
PROCESS BIO
RECLAM ERA
REV ZOO AGR
SCI HORT
SOIL CONS
SOIL SCI
SOIL SCI SO
SOV SOIL R
SUGAR J
T ASAE
TASM J AGR
TROP AGR
TROP SCI
TURRIALBA
WEED RES
WEED SCI
WORLD POULT
WORLD REV P
Z LEBENSMIT
Z PFLANZENZ
ZUCKER

ALLERGY

ACT ALLERG
ANN ALLERGY
INT A ALLER
J ALLERG CL
PROG ALLERG
REV FR ALLE
Z IMMUN EXP

ANALGESIA
SEE ANESTHESIA & ANALGESIA

ANATOMY & MORPHOLOGY

ACT ANATOM
ACT MORPH H
ACT MORPH N
AM J ANAT
ANAT REC
ARCH ANAT M
BIBL ANATOM
CLIN ORTHOP
J ANAT
J COMP PATH
J EMB EXP M
J MORPH
T AM MICROS
VIRCH ARC A
Z ANAT ENTW
Z MORPH TIE

ANESTHESIA & ANALGESIA

ACT ANAE SC
ANAESTHESIA
ANAESTHESIS
ANESTH AN R
ANESTH ANAL
ANESTHESIOL
BR J ANAEST
CAN ANAE SJ

ASTRONAUTICS
SEE AEROSPACE SCIENCE

ASTRONOMY

ANN BRUX 1
ANN R ASTRO
ARK ASTRON
ASTRON ASTR
ASTRONOM J
ASTRONOM ZH
ASTROPH J S
ASTROPHYS J
B ASTR I CZ
B POL MATH
EARTH PLAN
ICARUS
IRISH ASTR
J FAC TOK 1
J ROY ASTRO
M NOT R AST
OBSERVATORY
P R IR AC A
PUB AST S J
PUB AST S P
PUB DOM AST
Q J R ASTRO
SKY TELESC
SOV ASTRO R
SPACE SCI R

ASTROPHYSICS

ANN R ASTRO
ASTRO SP SC
ASTRON ASTR
ASTROPH J S
ASTROPHYS J
ASTROPHYS L
REV GEOPHYS
Z NATURFO A

ATMOSPHERIC SCIENCES
SEE METEOROLOGY

ATOMIC SCIENCES
SEE NUCLEAR SCIENCE & TECHNOLOGY

AUDIO
SEE ACOUSTICS

BACTERIOLOGY

BACT REV
INFEC IMMUN
J APPL BACT
J BACT
ZBL BAKT A
ZBL BAKT B

BEHAVIORAL SCIENCE
SEE ALSO PSYCHOLOGY

AM BEHAV SC
ANIM BEHAV
AUDIOLOGY
B NARCOTICS
BEHAV BIOL
BEHAV RES M
BEHAV RES T
BEHAV SCI
BEHAVIOUR
CAN J BEH S
COMM MENT H
DEVELOP PSY
HORMONE BEH
J APPL BE A
J APPL BEH
J EX AN BEH
J VERB LEAR
PERSONNEL
PHYSL BEHAV
Q J STUD AL
SAM ADV MAN

BIOCHEMISTRY

ACT BIO IRA
ACT BIOCH H
ACT BIOCH P
ACT HISTOCH
ACT VIT ENZ
ADV CY NU R
ADV ENZYM
AGR BIOL CH
ANALYT BIOC
ANN BIOL AN
ANN HISTOCH
ANN R BIOCH
ANTIBIOTIKI
ARCH BIOCH
ARCH I PHYS
B EKSP BIOL
BIOC BIOP A
BIOC BIOP R
BIOCH PHARM
BIOCHEM
BIOCHEM GEN
BIOCHEM J
BIOCHEM MED
BIOCHIMIE
BIOKHIMIYA
BIOPOLYMERS
BIOTECH BIO
CAN J BIOCH
CHEM-BIO IN
CHEM INSTR
CLIN BIOCH
COMP BIOCH
CR AC SCI C
CR TR LAB C
CYTOBIOS
CYTOGENET
ENZYME
ENZYMOLOGIA
EUR J BIOCH
FEBS LETTER
HISTOCHEM J
HISTOCHEMIE
I J BIOCH B
IEEE BIOMED
IMMUNOCHEM
INSECT BIOC
INT J BIOCH
INT J PEPT
INT J PROT
ITAL J BIOC
J AGR CHE J
J BIOL CHEM
J CELL BIOL
J LIPID RES
J MACR S RM
J MOL EVOL
J STEROID B
LIPIDS
METABOLISM
MICROBIOS
P AUST BIOC
P NAS US
PEST BIOCH
PHYSL CHEM
POST BIOCH
PREP BIOCH
PROSTAGLAND
REV RO BIOC
SEIKAGAKU
UKR BIOKHIM
VOP MED KH
XENOBIOTICA

BIOLOGY

ACT BIO C Z
ACT BIO MED
ACT BIOL H
ACT CIENT V
ACT HISTOCH
ACT ZOOL H
AM J HU GEN
ANN AP BIOL
ANN BIOL AN
ANN BIOL CL
ANN HUM GEN
ANN MED EXP
ANN R ENTOM
ARCH ANAT M
ARCH BIOL M
ARCH I BIOL
ARCH IT BIO
ARCH ORAL B
AUST J BIOL
AUST J EX B
B EX BIO R
B ITAL BIOL
B POL BIOL
BEHAV BIOL
BIOL B
BIOL PLANT
BIOL REV
BIOMETR Z
BIOMETRICS
BIOMETRIKA
BIOSCIENCE
BIRD BAND
CAN ENTOMOL
CAN J GENET
CHROMOSOMA
COLD S HARB
COMPUT BIOM
CR SOC BIOL
CRYOBIOLOGY
DAN BOLG
DEVELOP BIO
EVOLUTION
EXP CELL RE
FEBS LETTER
FED PROC
FOL BIOL
GROWTH
HUMAN BIOL
I J EX BIOL
IAN SSS BIO
INT J RAD B
J BIOCHEM
J BIOL CHEM
J BIOSOC SC
J CHIM PHYS
J ECON ENT
J EXP BIOL
J FISH BIOL
J HIST CYTO
J INVER PAT
J MARINE BI
J MEMBR BIO
J MOL BIOL
J MORPH
J NUCL BIOL
J PROTOZOOL
J REPR FERT
J RETIC SOC
J SCI IND R
J THEOR BIO
J ULTRA RES
KOSM BIOL M
MED BIO ENG
MED BIO ILL
MOL BIOL R
NATURE-BIOL
P KON NED C
P R IR AC B
P ROY SOC B
P RS EDIN B
P SOC EXP M
PATH BIOL
PEDOBIOLOG
PER BIOL
PERSP BIOL
PHI T ROY B
PHOTOCHEM P
PHYS MED BI
Q J EXP PHY
Q REV BIOL
RADIAT RES
REV CAN BIO
REV EUR ETU
SOCIAL BIOL
T AM MICROS
TEX REP BIO
THEOR POP B
TOXICON
VIE MILIE C
YALE J BIOL
ZBL BAKT A
ZH OBS BIOL

BIOMETRICS
SEE BIOLOGY

BIOPHYSICS

ACT BIOCH H
ACT BIOCH P
ANN BIOL AN
ANN PHYS BI
ARCH BIOCH
B EKSP BIOL
B MATH BIOP
BIOC BIOP A
BIOC BIOP R
BIOFIZIKA
BIOPHYS J
BIOPHYSIC R
BIOPHYSIK
FEBS LETTER
HEALTH PHYS
IEEE BIOMED
J BIOENERG
J BIOMECHAN
Q REV BIOPH

BOTANY

ACT BIO C B
ACT BOT NEE
AGR HOR GEN
AM FRUIT GR
AM J BOTANY
ANN A PLANT
ANN BOTANY
ANN MO BOT
ANN R PHYTO
ANN R PLANT
ARK BOTAN
AUST J BOT
B S BOT FR
B TOR BOT C
BER DEU BOT
BIOL PLANT
BOTAN B A S
BOTAN GAZ
BOTAN J LIN
BOTAN MAG
BOTAN NOTIS
BOTAN REV
BOTAN TIDS
BRITTONIA
CAN J BOTAN
CAN J PLANT
COM FOR REV
DANSK BOTAN
ECOL MONOGR
ECOLOGY
ECON BOTAN
EUPHYTICA
FLORA
FOREST SCI
FORESTRY
HOLZ ROH WE
HOLZFORSCH
I J GENET P
ISR J AGR R
ISR J BOT
J ARN ARBOR
J BR GRASSL
J BRYOL
J EXP BOT
J FORESTRY
J HORT SCI
J I WOOD SC
J PHYCOLOGY
J RS NZ
JAP J BOTAN
LLOYDIA
MEDD NOR SK
MITT B FORS
MYCOLOGIA
MYCOP MYC A
NEW PHYTOL
OECO PLANTA
OSTER BOT Z
PHOTOSYNTHE
PHYSL PL P
PHYSL PLANT
PHYSL VEGET
PHYTOCHEM
PHYTOMA
PHYTOMORPH
PHYTON
PHYTON AUST
PHYTOPATHOL
PLANT CEL P
PLANT DIS R
PLANT PATH
PLANT PHYSL
PLANT SOIL
PLANTA
PLANTA MED
RADIAT BOT
REV PALAE P
SCI HORT
SYM BOT UPS
T BR BRY SO
WEED RES
WEED SCI
Z PFLANZEI.P
Z PFLANZENZ

CANCER

B CANCER
BR J CANC
BR J EX PAT
CANC CH P1
CANC CH P2
CANC CH P3
CANCER
CANCER RES
EUR J CANC
EXP CELL RE
GANN
GROWTH
INT J CANC
J NAT CANC
NAT CAN I M
NEOPLASMA
ONCOLOGY
P AM ASS CA
PROG EX TUM
TUMORI
Z KREBSF KL

CARDIOVASCULAR SYSTEM

ACT HAEMAT
AM HEART J
AM J CARD
ANGIOLOGICA
ANGIOLOGY
ANN CARD AN
ARCH MAL C
ATHEROSCLER
BIBL CARDIO
BIBL HAEM
BLOOD
BLUT
BR HEART J
BR J HAEM
CARDIO RES
CARDIOLOGY
CIRCUL RES
CIRCULATION
COEUR MED I
HERZ KREISL
J CARD SURG
J ELCARDIOL
J LIPID RES
J MOL CEL C
JAP HEART J
MICROVASC R
NOUV RF HEM
SB LEKAR
SC J HAEMAT
THROMB DIAT
TRANSFUSION
VOX SANGUIN
Z KREISLAUF

CERAMICS

AM CERAM S
B S FR CER
CERAM AGE
CERAMICS
J AM CERAM
SILIKATY
T J BR CER

CHEMISTRY

ABS PAP ACS
ACT CHEM SC
ACT CHIM H
ACT CRYST B
ACT PHYS CH
ACT POLY CH
ADV MOL REL
AG CHEM
AN AS QUIM
AN QUIMICA
ANAL LETTER
ANGEW CHEM
ANGEW MAKRO
ANN CHEM
ANN CHIM FR
ANN RP CH A
ARK KEMI
ARM KHIM ZH
AUST J CHEM
B CHEM S J
B I QUIM
B POL CHIM
B POL SCI T
B S CHIM BE
B S CHIM FR
CAN J CHEM
CARBOHY RES
CARBON
CATAL REV
CEREAL CHEM
CHEM BER
CHEM BRIT
CHEM ENG N
CHEM INSTR
CHEM LETT
CHEM LISTY
CHEM NZ
CHEM REV
CHEM SCR
CHEM SOC RE
CHEM TECH
CHEM ZEITUN
CHEM ZVESTI
CHEMTECH US
CHIM IND M
CHIMIA
CLIN CHEM
CLIN CHIM A
COLL CZECH
COORD CH RE
CR AC SCI C
CROAT CHEM
DAN BOLG
DENKI KAG
DISC FARAD
ELECTR ACT
FARM CHEM
FET SEI ANS
GAZ CHIM IT
GEOCH INT R
H-S Z PHYSL
HELV CHIM A
I J CHEM
IAN SSS KH
IND FINISH
INORG CHEM
INT J QUANT
ISR J CHEM
J AGR FOOD
J AM CHEM S
J AM LEATH
J APPL CH B
J CATALYSIS
J CHEM DOC
J CHEM EDUC
J CHEM EN D
J CHEM PHYS
J CHEM S CH
J CHEM S F1
J CHEM S F2
J CHIM PHYS
J CHIN CHEM
J ELCHEM SO
J FAC TOK 1
J FERM TECH
J I BREWING
J IND CH S
J MACR S CH
J MED CHEM
J MOL STRUC
J PAINT TEC
J PHOT SCI
J PHYS CH S
J PRAK CHEM
J RES NBS A
J SA CHEM I
J SCI FOOD
KEM KOZLEM
KEM TIDSKR
MAGY KEM FO
MAGY KEM LA
MICROCHEM J
MONATS CHEM
NIP KAG KAI
NIP KAG ZAS
P R IR AC B
PCM PCE
PETR CHEM R
PHOTOCHEM P
PHYS C GLAS
PRZEMY CHEM
Q REVIEWS
RADIAT RES
REC CHEM PR
REC TR CHIM
REV CHIM MI
REV PA CHEM
REV PO QUIM
REV RO CHIM
ROCZN CHEM
SOC SCI LOD
STARKE
SUOM KEMIST
THEOR CHIM
UAR J CHEM
UKR KHIM ZH
USP KH
V MOSK U KH
VYSO SOED A
Z ANORG A C
Z CHEM
Z KLIN CHEM
ZH NEORG KH
ZH OBS KH
ZH PRIK KH

CHEMISTRY, ANALYTICAL

ABS PAP ACS
ACC CHEM RE
ANALUSIS
ANALYST
ANALYT BIOC
ANALYT CHEM
ANALYT CHIM
ANN CHIM
CHEM PHYS L
CHIM ANAL
CHIM THER
INT J RAD P
J AOAC
J CHROM SCI
J CHROMAT
J ELEC CHEM
J FOR SCI
J LABEL COM
J MAGN RES
J QUAN SPEC
J RAD CHEM
J S COSM CH
J THERM ANA
JAP ANALYST
MACROMOLEC
MIKROCH ACT
POWD TECH
RADIOCH ACT
TALANTA
Z ANAL CHEM
ZH ANAL KH

CHEMISTRY, ORGANIC

ABS PAP ACS
AM DYE REP
ANN RP CH B
CARBON
ERD KOH EPB
F CHEM ORG
FIN KEM MED
INORG NUCL
J AM OIL CH
J CHEM S P1
J CHEM S P2
J HETERO CH
J I PETROL
J OIL COL C
J ORG CHEM
J ORGMET CH
J PETRO TEC
J S DYE COL
J SYN ORG J
KHIM GETERO
KHIM PRIR S
KOLLOID-Z
OMR-ORG MAG
ORG CH RE A
ORG CH RE B
ORG CH SYN
REV I F PET
RUBBER AGE
SOAP COSMET
STEROIDS
SYNTHESIS
TETRAHEDR L
TETRAHEDRON
ZH ORG KH

CHEMISTRY, PHYSICAL

ABS PAP ACS
ACT PHYS CH
ADV CHEM SE
ANN R PH CH
ANN RP CH A

R BUN GES
OPOLYMERS
EM P LETT
LLOID J R
MB FLAME
AC SCI C
EL
GH TEMP S
J RAD P
APPL POLY
CATALYSIS
CHEM S DA
CHEM S P2
CHEM THER
COLL I SC
HETERO CH
NORG NUC
LESSC MET
MAGN RES
MOL CEL C
MOL SPECT
ORGMET CH
PHYS CHEM
POL SC A1
POL SC PC
POL SC PL
POL SCI B
POL SCI C
STEROID B
VAC SCI T
LL ZH
LLOID-Z
KROM CHEM
ATER PROT
OLEC PHYS
ID COMB R
LYM J
V PH CH J
SS J PH R
XT RES J
SO SOED B
PHYS CH F
PHYS CH L
FIZ KHIM
STRUK KH

THERAPHY
PHARMACOLOGY &
RMACY

NICATIONS

ECOMMUNICATIONS

TERS
YBERNETICS

T POLY MA
GEW INFOR
LIB PROC
ST J INST
T REMOT R
TOMATICA
TOMATISME
MED LIB A
MM ACM
MPUT BIOM
MPUTER
MPUTER AU
MPUTER B
MPUTER HU
MPUTER J
MPUTER PH
MPUTING
NTR INSTR
NTROL ENG
BERNETICA
TA PROC M
TA PROCES
TAMATION
G CYBER R
GONOMICS
M J RES
M SYST J
EE AUTO C
EE COMPUT
EE MAGNET
EE RELIAB
EE SYST M
F CONTR
F DISPLAY
F STORAGE
STR CONTR
T J COM M
T J CONTR
ACM
AM S INFO
COMPUT PH
LIBR AUT
MATH PSYC
OP RES SO
YBERNETIK
B RES TEC
AT S INF D
AU T INF 1
AU T INF 2
AV RES LOG
ERAT R Q
ERAT RES
IEE LOND
IEEE
EV FR AUTO
EV FR INF
EV INF MED
D INT S D
MULATION
ECHNOMET

RUCTION &
LDING TECHNOLOGY

T POLY CI
R FOR CE
NCRETE
NCRETE Q
CK HARB A
G MAT DES
I WOOD SC
MATERIALS
PRE CONCR
AG CONCR R
ATER ENG
ATER EVAL
ATER PROT
ATER RES S
DD PLAST
I CIV E 1
BL ROADS
IRON ST I
ELDING J
IRE

ALLOGRAPHY

CT CRYST A
ACT CRYST B
J APPL CRYS
J CRYST GR
J SOL ST CH
KRISTALLOGR
MATER RES B
MOLEC CRYST
SOV PH CR R

CYBERNETICS
SEE COMPUTERS & CYBERNETICS

CYTOLOGY & HISTOLOGY

ACT ANATOM
ACT CYTOL
ANN HISTOCH
CAN J GENET
CELL IMMUN
CYTOBIOLOG
CYTOGENET
CYTOLOGIA
EXP CELL RE
EXP PATH
HISTOCHEM J
HISTOCHEMIE
IN VITRO
INT REV CYT
J CELL BIOL
J CELL PHYS
J CELL SCI
J HIST CYTO
J MOL CEL C
J SUBMIC CY
MICROBIOS
NUCLEUS
PROTOPLASMA
TISSUE CELL
TSITOLOGIYA
VIRCH ARC B

DENTISTRY & ODONTOLOGY

ACT ODON SC
AM J ORTHOD
ANGL ORTHOD
ARCH ORAL B
BR DENT J
CARIES RES
DENT CLIN N
DENT PRACT
HELV ODON A
INT DENT J
J AM DENT A
J DENT RES
J ORAL SURG
J PERIOD RE
J PERIODONT
J PROS DENT
P CALC TISS
SC J DENT R

DERMATOLOGY

ACT ALLERG
ACT DER-VEN
ANN ALLERGY
ANN DER SYP
ARCH DERMAT
B S FR D SY
BERUFS-DERM
BR J DERM
BR J VEN DI
DERMATOLOG
HAUTARZT
INT A ALLER
J ALLERG CL
J INVES DER
PROG ALLERG

DIETETICS
SEE NUTRITION & DIETETICS

DOCUMENTATION
SEE INFORMATION SCIENCE

EARTH SCIENCE
SEE GEOSCIENCE & EARTH SCIENCE

ECOLOGY

ECOL MONOGR
ECOLOGY
ENVIR LETT
ENVIR RES
FLORA
HYDROBIOL
J ANIM ECOL
J APPL ECOL
J ECOLOGY
J WILDL MAN
OECO PLANTA
OECOLOGIA
OIKOS
PALAEOGEO P

EDUCATION

AM BIOL TEA
AM J PHAR E
BR J ED PSY
EDUC PERSPE
EDUC PSYC M
EDUC REV
ENG EDUC
IEEE EDUCAT
INT J EL EN
J CHEM EDUC
J COUN PSYC
J EDUC DATA
J EDUC PSYC
J EDUC RES
J EXP C PSY
J EXP EDUC
J MED EDUC
J NEGRO ED
J RES MUSIC
SCH COMMUN
SOCIOL EDUC

ELECTRICITY

ARCH ELEK U
ARCH ELEKTR
DENKI KAG
ELEKTR Z B
IBM J RES
IEEE DEVICE
IEEE EL INS
IEEE ELM CS
IEEE ELMAGN
IEEE IND AP
IEEE INFO T
IEEE INSTR
IEEE MAGNET
IEEE NUCL S
IEEE POWER
IEEE RELIAB
IEEE SON UL
IEEE SPECTR
INF CONTR
INF STORAGE
INT J CONTR
J ELCHEM SO
J ELEC CHEM
J GEOMAGN G
MED RES ENG
NACHRTECH Z
P IEEE
PER POLY EE

ELECTROCHEMISTRY

DENKI KAG
ELECTR ACT
ENERGY CONV
J ELCHEM SO
J ELEC CHEM

ELECTRONICS

ANGEW INFOR
COMPUTER HU
ELECTR CO J
ELECTR ENG
ELECTR LETT
ELECTR POW
ELECTRONICS
ELEKTROTECN
ERICSSON TE
IEEE AER EL
IEEE COMPUT
IEEE GEOSCI
IEEE IND EL
IEEE J Q EL
IEEE J SOLI
IEEE MICR T
INT ELEKTR
INT J ELECT
INTER ELECT
MICROEL REL
NACHRTECH Z
P EL COMP C
P IEE LOND
P IEEE
PHYS ST S-A
PHYS ST S-B
RADIO EL EN
RADIO ENG R
RADIOTEK EL
RCA REVIEW
SOL ST ELEC
SOV PH SS R

EMBRYOLOGY

ACT ANATOM
BIOL NEONAT
DEVELOP GR
W ROUX ARCH

ENDOCRINOLOGY

ACT ENDOCR
ANN ENDOCR
DIABETES
ENDOCR JAP
ENDOCRINOL
ENDOKRINOL
GEN C ENDOC
HORMONE BEH
HORMONE MET
HORMONES
J CLIN END
J ENDOCR
J NEURAL TR
J NEURO-VIS
PROSTAGLAND

ENGINEERING

AACE B
ACT POLY CI
AGR ENG
AIRCR ENG
B POL TECHN
BIO-MED ENG
COMB EXPL R
COMBUSTION
COMPRES AIR
COST ENG
DESALINATN
DESIGN NEWS
ENG EDUC
ENG GEOL
ENG J
ENG MAT DES
ENGINEERING
FOOD ENG
HYDRA PNEUM
IEEE EDUCAT
IEEE MANAGE
IEEE PROF C
IEEE RELIAB
IND ENG
INF CONTR
ING ARCH
INT J CONTR
INT J ENG S
J ACM
J ADHESION
J AGR ENG R
J AUD ENG S
J CAN PET T
J I NUCL EN
J SCI IND R
MACH PROD E
MATER ENG
MEAS CONTRO
MED BIO ENG
MES REG AUT
NAV ENG J
NAV RES REV
NEC RES DEV
NON-DESTR T
NUCL ENG DE
NUCL SCI EN
PHIL RES R
POWER ENG
RECLAM ERA
REFRACTOR J
REFRIG AIR
RUSS EN J R
SOC PET E J
SUMITOMO SE
T ASAE
TEXT RES J
THERM ENG R
TRAFFIC Q
VIDE
WATER W ENG
WATER WASTE

ENGINEERING, CHEMICAL

AICHE J
APPL SCI RE
ASLE TRANS
BR CH ENG P
CAN J CH EN
CHEM ENG
CHEM ENG L
CHEM ENG N
CHEM ENG PR
CHEM ENG SC
CHEM IND L
CHEM-ING-T
CHEM PR ENG
CHIM IND GC
COKE CHEM R
COMB FLAME
CORROS TRAI
ERD KOH EPB
FUEL
HYDROC PROC
IND CHIM BE
IND ENG F
IND ENG PDD
IND ENG PRD
ING CHIM IT
INT CHEM EN
J APPL CH B
J CATALYSIS
J CHEM EN D
J I FUEL
J I PETROL
J PETRO TEC
J VAC SCI T
LUBRIC ENG
MANUF CH AE
NUCL ENG DE
OXID COMB R
PER POLY CE
PIPE GAS J
PROCESS TEC
REV I F PET
RUBBER AGE
WORLD OIL

ENGINEERING, CIVIL

AIR FOR CE
BYGNIN MEDD
CIVIL ENG
DOCK HARB A
J I HIGHW E
J SANIT ENG
MATER EVAL
MATER RES S
MEM S R MET
NUCL ENG DE
P I CIV E 1
P I CIV E 2
P I CIV ENG
SAE J A ENG
SAE PR TECH
SAE TRANS
TRANSP RES

ENGINEERING, ELECTRICAL & ELECTRONIC

ACT POLY EL
ARCH ELEK U
ARCH ELEKTR
AUDIO
BELL LAB RE
BELL SYST T
BROWN BOV R
COMPUTER AU
COMPUTER B
COMPUTER HU
CONTROL ENG
DATAMATION
EEI B
ELEC EN JAP
ELEC REV
ELEC TECH R
ELECTR CO J
ELECTR ENG
ELECTR ENGR
ELECTR PROD
ERICSSON RE
IEEE ANTENN
IEEE AUDIO
IEEE AUTO C
IEEE B TELE
IEEE BROADC
IEEE C TECH
IEEE CIRC T
IEEE COMMUN
IEEE COMPUT
IEEE DEVICE
IEEE EDUCAT
IEEE EL INS
IEEE ELM CS
IEEE IND AP
IEEE IND EL
IEEE INFO T
IEEE INSTR
IEEE J Q EL
IEEE J SOLI
IEEE MANAGE
IEEE MICR T
IEEE PARTS
IEEE POWER
IEEE PROF C
IEEE RELIAB
IEEE SON UL
IEEE SPECTR
IEEE SYST M
IEEE VEH T
INT J EL EN
INTER ELECT
J SCI TECH
LICHTTECH
MARCONI REV
MICROEL REL
P IEE LOND
P IEEE
PER POLY EE
POINT P COM
POST O EE J
RADIO EL EN
RADIO ENG R
RADIO SCI
RCA REVIEW
REV EL COMM
SIAM J CONT
SOL ST ELEC
SOL ST TECH
TEL RAD E R
WEST ELEC E
WIREL WORLD

ENGINEERING, MECHANICAL

ABRASIV ENG
ACT POLY CI
ACT POLY MA
ACT POLY ME
ACT TECHN H
AEROTEC M S
ASHRAE J
BALL BEAR J
BRENN WARME
COMBUSTION
CUT TOOL EN
EXP MECH
HYDRA PNEUM
IND LUB TRI
INT J MECH
J APPL MECH
J BASIC ENG
J ENG IND
J ENG POWER
J FLUID MEC
J HEAT TRAN
J JAP S LUB
J LUB TECH
J MECANIQUE
J MECH ENG
J MECHANISM
J SPAC ROCK
MACH TOOL R
MACHINE DES
MANUF ENG M
MASCHIN TEC
MATER EVAL
MECH ENG
MECH ENG SC
MECH HANDL
MECH MACH T
MECHANIK
PER POLY ME
PLANET SPAC
PUMPS
SAE PR TECH
SAE TRANS
SPACEFLIGHT
TEC MIT K W
Z FLUGWISS

ENTOMOLOGY

ACT ENT BOH
ANN ENT S A
ANN R ENTOM
ANN SOC ENT
B ENT RES
CAN ENTOMOL
ENT EXP APP
GL BEE CULT
INSECT BIOC
INSECT SOC
J ECON ENT
J ENTOMOL A
J ENTOMOL B
J INSECT PH
J MED ENT
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MEM ENT S C
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P ENT S ONT
P ENT S WAS
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PAN PAC ENT
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WORLD REV P

ENVIRONMENT
SEE ECOLOGY AND METEOROLOGY

ENZYMOLOGY

ACT VIT ENZ
ADV ENZYM
ENZYME
ENZYMOLOGIA
INT J PEPT
INT J PROT
J MACR S RM

FERTILITY
SEE GYNECOLOGY & OBSTETRICS

FISHERIES

B JAP S S F
CALIF FISH
COMMER FISH
FISH B
J FISH BIOL
J FISH RES
MAR FISH RE
PROG FISH C
T AM FISH S
USBSFW R
WORLD FISH

FOOD TECHNOLOGY
SEE AGRICULTURE & FOOD TECHNOLOGY

FORESTRY

COM FOR REV
FOREST CHRO
FOREST SCI
FORESTRY
J FORESTRY
MITT B FORS

FUELS

AM GAS AS M
FUEL
J I FUEL
LUBRICATION
PIPE GAS J

GASTROENTEROLOGY

ACT HEP-GAS
AM J DIG DI
AM J GASTRO
ANN GASTRO
ARCH FR MAL
BIBL GASTRO
BIOL GASTRO
DIGESTION
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GASTROENTY
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LEBER MAG D
REND ROM GA
SC J GASTR
Z GASTROENT

GENETICS & HEREDITY

ACT GENET M
ADV GENETIC
ADV HUM GEN
AGR HOR GEN
AM J HU GEN
ANN GENET
ANN HUM GEN
ANN R GENET
B EUR S HUM
BIOCHEM GEN
BROOK S BIO
CAN J GENET
CARYOLOGIA
CHROMOSOMA
CLIN GENET
CLIN PEDIAT
CYTOGENET
EVOLUTION
GENET IBER
GENET POL
GENET RES
GENETICA
GENETICS
GENETIKA
HEREDITAS
HEREDITY
HUMAN BIOL
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HUMAN HERED
HUMANGENET
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J GENET PSY
J GENETICS
J HEREDITY
J MED GENET
J MOL EVOL
JAP J GENET
JAP J HUM G
MOL G GENET
MUTAT RES
PROG MED GE
SOCIAL BIOL
THEOR A GEN

GENITOURINARY SYSTEM
SEE UROGENITAL SYSTEM

GEOGRAPHY

B POL SCI T
GEOGR J
PALAEOGEO P
REV GEOG PH
TROP GEO ME

GEOLOGY

AM A PETR G
ARK MIN GEO
B POL SCI T
CHEM GEOL
DAN BOLG
ECON GEOL
ENG GEOL
GEOL MAG
GEOL S AM B
J GEOL S IN
J GEOLOGY
J PETROLOGY
J RS NZ
J SED PETRO
LETHAIA
MARINE GEOL
MIN DEPOSIT
NZ J GEOL
P GEOL AS C
P R IR AC B
REV GEOG PH
SEDIMENT GE
SEDIMENTOL
Z ANG GEOL

GEOPHYSICS

ANN GEOFIS
ANN GEOPHYS
ARK GEOFYS
GEOEXPLOR
GEOPHYS J R
GEOPHYSICS
INT J ROCK
J GEOPH RES
MARINE GEOL
NZ J GEOL
PAP MET GEO
PUR A GEOPH
REV GEOPHYS
STUD GEOPH
T AM GEOPHY
TELLUS

GEOSCIENCE & EARTH SCIENCE

AM A PETR G
AM J SCI
AM MINERAL
ANN GEOFIS
ANN GEOPHYS
ARK GEOFYS
AUST J SOIL
B POL SCI T
B S FR MIN
B SEIS S AM
CAN J EARTH
CAN J SOIL
CONTR MIN P
EARTH PLAN
EARTH SCI R
ECON GEOL
GEOCH COS A
GEOCH INT R
GEOFIS MET
GEOKHIMIYA
GEOL MAG
GEOL S AM B
GEOPHYS J R
GEOPHYSICS
GEOTECHNIQ
HYDROC PROC
IEEE ELMAGN
IEEE GEOSCI
ISR J EARTH
J AM WATER
J GEOLOGY
J GEOMAGN G
J GEOPH RES
J I PETROL
J PETRO TEC
J PETROLOGY
J RS NZ
J SED PETRO
J SOIL SCI
KJEMI
MARINE GEOL
MINERAL MAG
P GEOL AS C
P R IR AC B
PALAEOGEO P
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PUR A GEOPH
RADIOCARBON
REV GEOG PH
REV GEOPHYS
REV I F PET
RIV ITAL GE
RUSS MET R
STUD GEOPH
TECTONOPHYS
TELLUS
WATER RES
WORLD OIL
Z ANG GEOL

GERIATRICS

ANN RHEUM D
ARTH RHEUM
EXP GERONT
GERIATRICS
GERONT CLIN
GERONTOL
GERONTOLOG
J AM GER SO
J GERONTOL
Z RHEUMAFOR

GERONTOLOGY

ACT GERONT
EXP GERONT
GERONT CLIN
GERONTOL
GERONTOLOG
GIOR GERONT
J GERONTOL

GYNECOLOGY & OBSTETRICS

ACT OBST SC
ADV OBSTET
AM J OBST G
ARCH GYNAK
AUST NZ J O
BIOL REPROD
CONTRACEPT
FERT STERIL
GYNAKOLOGE
GYNECOL INV
INT J FERT
J OBSTET GY
J REPR FERT
J REPRO MED
OBSTET GYN
REV F GY OB
SURG GYN OB

HEART
SEE CARDIOVASCULAR SYSTEM

HEMATOLOGY

ACT HAEMAT
BIBL HAEM
BLOOD
BLUT
BR J HAEM
NOUV RF HEM
SEM HEMATOL
THROMB DIAT
TRANSFUSION
VOX SANGUIN

HEREDITY
SEE GENETICS & HEREDITY

HISTOLOGY
SEE CYTOLOGY & HISTOLOGY

HORTICULTURE

AGR HOR GEN
AM HORT
AM HORT MAG
GARDEN J
HORT RES
HORTICULT
J AM S HORT
J HORT SCI
SCI HORT

HYGIENE & PUBLIC HEALTH

ACT DER-VEN
AM IND HYG
AM J EPIDEM
AM J PUB HE
AM J TROP M
ANN TROP M
ARCH ENV HE
ARCH MAL PR
B NARCOTICS
B OF SAN PA
B WHO
BR J IND ME
BR J PREV S
BR J VEN DI
EFF WAT TRE
HEALTH PHYS
HEALTH SERV
HSMHA H REP
IND MED SUR
INT A ARB
J AIR POLLU
J ECON ENT
J EXP BIOL
J HYG CAMB
J HYG EP MI
J NUCL MED
J TROP MED
J WATER P C
MONATS UNFA
NUCL SAFETY
PUBL HEAL
REV EPIDEM
T RS TROP M
TROP GEO ME
WATER RES R
WHO CHRON
Z TROP PARA
ZBL BAKT A
ZBL BAKT B
ZH MIKROB E

IMMUNOLOGY

ACT DER-VEN
ACT PAT S B
ACT VIROLOG
AM J TROP M
ANN IN PAST
ANN TROP M
B EKSP BIOL
B I PASTEUR
BR J PREV S
BR J VEN DI
CELL IMMUN
CLIN EXP IM
EUR J IMMUN
IMMUNOCHEM
IMMUNOL COM
IMMUNOLOGY
INFEC IMMUN
INT A ALLER
J ANTIBIOT
J HYG EP MI
J IMMUNOL
J INFEC DIS
J RETIC SOC
MED MICROBI
REV FR TRAN
REV IMMUNOL
T RS TROP M
TISSUE ANTI
VIROLOGY
Z IMMUN EXP
ZH MIKROB E

INFORMATION SCIENCE AND LIBRARY SCIENCE

ASLIB PROC
AUT REMOT R
B INF SCI T
B MED LIB A
CC LIFE SCI
COLL RES LI
COMPUTER AU
DATAMATION
FRONT LIBR
IEEE INFO T
IEEE MANAGE
IEEE PROF C
INF CONTR
INF DISPLAY
INF SCI
INF SCIENT
INF STORAGE
J AM S INFO
J CHEM DOC
J DOC
J EDUC LIBR
J LIBR AUT
LIB RES TEC
LIB TRENDS
LIBRARY J
LIBRARY Q
MET INF MED
NACHR DOKUM
NAU T INF 1
NAU T INF 2
OPERAT R Q
OPERAT RES
PATT RECOG
SPECIAL LIB
TEC INF C A
UNESCO B LI

INSTRUMENTATION
SEE INSTRUMENTS & INSTRUMENTATION

INSTRUMENTS & INSTRUMENTATION

APPL SPECTR
ARCH TECH M
ASTROPH J S
ASTROPHYS J
AUST J INST
AUT REMOT R
BIOTECH BIO
IEEE INSTR
IEEE POWER
IND LAB R
INFRAR PHYS
INSTR EXP R
INSTR PRACT
INSTR TECH
INSTRUMENT
ISA TRANS
J INDIAN I
J MOL SPECT
J PHYS E
J RES NBS C
J SMPTE
LARYNGOSCOP
MATER EVAL
MEAS CONTRO
MEAS TECH R

MED BIO ILL
MES REG AUT
MESSTECHNIK
METROLOGIA
MICROTECNIC
NUCL INSTR
PHOT SCI EN
PHOTOCHEM P
PRIB TEKHN
RADIOCARBON
REV SCI INS
SPECT ACT A
SPECT ACT B
VAKUUM-TECH
ZAVOD LAB

LARYNGOLOGY

ACT OTO-LAR
ANN OTOL RH
LARYNGOSCOP
ORL-J OTO R
PRAC OTO-RH

LIBRARY SCIENCE
SEE INFORMATION SCIENCE AND LIBRARY SCIENCE

LIMNOLOGY

ARCH HYDROB
ARCH OCEAN
AUST J MAR
EFF WAT TRE
J WATER P C
LIMN OCEAN
WATER RES
WATER RES R

LINGUISTICS

FOUND LANG
IEEE PROF C
J SPEECH HE
J VERB LEAR
LANG SPEECH
PHONETICA

MACHINERY

ASHRAE J
CUT TOOL EN
INT J MACH
J ACM
MACH PROD E
MACH TOOL R
MACHINE DES
MACHINERY
MASCHIN TEC
MECHANIK
SUMITOMO SE
WT Z IND FE

MANAGEMENT

AACE B
ADM MANAG
FINAN EXEC
FUTURES
HARV BUS RE
IND ENG
J MANAG STU
LONG RANG P
RES DEVELOP
RES MANAG

MARINE BIOLOGY

ADV MAR BIO
ARCH HYDROB
AUST J MAR
B JAP S S F
BOTAN MARIN
CAH BIO MAR
CAH ORST HY
INV PESQ
J MARINE BI
MARINE BIOL
SARSIA
SEA FRONT
USBSFW R
VIE MILIE A
WORLD FISH

MATERIAL SCIENCE

ACT POLY CH
ADHES AGE
AM CERAM S
ANTI-CORROS
APPITA
ASLE TRANS
B S FR CER
B S FR MIN
BR PLAST
CERAM AGE
CERAMICS
CLAY CLAY M
COMB SCI T
CONCRETE
CONCRETE Q
CORROS SCI
ENG MAT DES
EUROPLAST M
FERROELECTR
FET SEI ANS
FLUORIDE
GLASS TECH
GROUND WAT
HOLZF HOLZV
IEEE PARTS
IND DIAM RE
INT BIOD B
INT J FRACT
J AM CERAM
J BIOMED MR
J COMPOS MA
J MATER SCI
J MATERIALS
J PAINT TEC
J POL SC PL
J POL SCI B
J POL SCI C
J TEXTILE I
J THERM ANA
KJEMI
LUBRIC ENG
MATER ENG
MATER PROT
MATER RES B
MATER SCI E
MINERAL MAG
MOD PLAST
NON-DESTR T
NORSK SKOG
PAP PUU
PHYS C GLAS
PLAST POLYM
PROG MAT SC
REFRACTOR J
REV G THERM
REV IN HAUT
RUBBER AGE
SOAP COSMET
SOV PH CR R
SPE J
SVENS PAP T
T SOC RHEOL
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TEXT I IND
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WEAR
WOOD SCI TE
Z KRISTALL
ZELL PAPIER

MATHEMATICS

ACT MATH
ACT MATH H
ACT POLY MA
ACT SCI MAT
ADV MATH
AM J MATH
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ANN BRUX 1
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ANN I HEN B
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ANN MATH
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APPL SCI RE
ARCH HIST E
ARCH MATH
ARCH MECH
ARCH R MECH
ARK MATEMAT
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AUST J STAT
B AM MATH S
B CALC MATH
B MATH BIOP
B MATH STAT
B POL MATH
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B SCI MATH
BIOMETR Z
BIOMETRICS
BIOMETRIKA
BR J MATH S
CALC STAT A
CAN J MATH
CAN MATH B
COLL MATH
COM PA MATH
COMM MATH H
COMM MATH P
COMP MATH
CR AC SCI A
CR AC SCI B
CZEC MATH J
DAN BOLG
DAN BSSR
DAN SSSR
DOP UKR A
DUKE MATH J
ECONOMETRIC
GLAS MATH J
IEEE INFO T
ILL J MATH
INDI MATH J
INT J COM M
INT STAT R
INVENT MATH
ISR J MATH
J ACM
J ALGEBRA
J AM STAT A
J ANAL MATH
J APPL MA R
J APPL PROB
J COMPUT PH
J DIFF EQUA
J ENG MATH
J FAC TOK 1
J LOND MATH
J MATH ANAL
J MATH JAP
J MATH P A
J MATH PHYS
J MATH PSYC
J REIN MATH
J RES NBS B
J ROY STA B
J ROY STA C
J SCI IND R
J SYMB LOG
MANUSC MATH
MATH ANNAL
MATH COMPUT
MATH NACHR
MATH SCAND
MATH Z
MATHEMATIKA
MATR TENS Q
MEM AM MATH
METROLOGIA
MICH MATH J
MONATS MATH
NAG MATH J
NOT AM MATH
NUMER MATH
P AM MATH S
P CAMB PHIL
P EDIN MATH
P JAP ACAD
P KON NED A
P LOND MATH
P R IR AC A
P ROY SOC A
P RS EDIN A
PAC J MATH
PHI T ROY A
PRIKL MAT
Q APPL MATH
Q J MATH
Q J MECH AP
RIC MAT
SCRIP MATH
SIAM J A MA
SIAM J CONT
SIAM J NUM
SIAM REV
STUD APPL M
STUD MATH
T AM MATH S
TECHNOMET
TEOR VEROYA
THEOR PRO R
TRANSP THEO
Z ANG MA ME
Z ANG MATH
Z MATH LOG
Z WAHRSCH V

MECHANICS

ACT MECHAN
ACT POLY ME
ANN R FLUID
APPL SCI RE
ARCH MECH
ARCH R MECH
DOP UKR A
ENERGY CONV
EXP MECH
INT J FRACT
J APPL MA R
J APPL MECH
J FLUID MEC
J MECANIQUE
J MECH ENG
J MECH PHYS
MECH ENG
MECH ENG SC
PRIKL MAT
Q J MECH AP

MEDICINE

ACT ALLERG
ACT BIO MED
ACT CHIR SC
ACT GENET M
ACT GERONT
ACT HEP-GAS
ACT MED H
ACT MED SC
ACT MORPH N
ACT OTO-LAR
ACT RAD DGN
ACT RAD TPB
ACT SOC MED
ACT U CAR M
ADV PSY MED
AEROSP MED
AM FAM PHYS
AM J MED
AM J MED SC
AM J MENT D
AM J ROENTG
ANN ALLERGY
ANN INT MED
ANN OTOL RH
ANN R MED
ANN RHEUM D
ANN TROP M
ANTIBIOTIKI
APPL MICROB
ARCH G VIR
ARCH GESCHW
ARCH I BIOL
ARCH IN MED
ARCH KREISL
ARCH MAL PR
ARCH ORTHOP
ARCH OTOLAR
ARCH PHYS M
ARCH TOXIK
ARTH RHEUM
AUST J EX B
AUST NZ J M
B MED LIB A
B NARCOTICS
B NY AC MED
B S SCI MED
B SC AK MED
BACT REV
BIBL PHONET
BIBL RADIOL
BIBL TUB ME
BIOCHEM MED
BIOL NEONAT
BR J RADIOL
BR MED B
BR MED J
BRAIN BEHAV
BRAIN RES
CALIF MED
CAN MED A J
CELL TISS K
CLIN EXP IM
CLIN GENET
CLIN ORTHOP
CLIN SCI
CLIN TOXIC
COEUR MED I
COMPUT BIOM
CURR THER R
DAN MED B
DEUT MED WO
DIABETES
DIABETOLOG
ENVIR RES
HEADACHE
HELV MED A
HIROS J MED
HNO WEG FAC
HUMAN HERED
INJURY
INT A ALLER
INTERNIST
IRISH J MED
ISR J MED S
J ALLERG CL
J AM MED A
J ANTIBIOT
J CHRON DIS
J CLIN END
J IRISH C P
J MED
J MED CHEM
J MED EDUC
J MED ENT
J MED MICRO
J MENT DEF
J NUCL BIOL
J NUCL MED
J PARASITOL
J REPRO MED
J TROP MED
JAP CIRC J
JAP J MED S
JOHNS H MED
KLIN WOCH
KOSM BIOL M
LANCET
LILLE MED
LYON MED
MAYO CLIN P
MED BIO ENG
MED C VIRG
MED CLIN NA
MED J AUST
MED RES ENG
MED SCI SPT
MEDICINA
MEDICINE
MENTAL HYG
MET INF MED
MILIT MED
MOD TREAT
MON PAEDIAT
MONATS UNFA
MT SINAI J
N ENG J MED
NAV RES LOG
NOUV PRESSE
NY ST J MED
NZ MED J
ORL-J OTO R
P KON NED C
P R VIRCH M
P ROY S MED
PERSP BIOL
PHYS MED BI
PNEUMONOL-P
POSTG MED J
POSTGR MED
PRAC OTO-RH
PRACTITION
PROG ALLERG
PSYCHOL MED
PSYCHOPHARM
Q J MED
RAD CLIN
RAD CLIN NA
RADIOLOGY
REV EPIDEM
REV INF MED
REV INV CLI
REV MED CHI
REV RHUM
RIV MED AER
S AFR MED J
SCHW MED WO
SCOT MED J
SEM HOP PAR
SEM ROENTG
SOCIAL SC M
SOUTH MED J
SOV MED
STRAHLENTHE
T RS TROP M
TERATOLOGY
UN MED CAN
UPSAL J MED
VIRCH ARC A
VIROLOGY
VISION RES
WIEN KLIN W
YALE J BIOL
YON ACT MED
Z ORTHOP GR
Z RECHTSMED
Z RHEUMAFOR
Z TROP PARA

MEDICINE, EXPERIMENTAL

ACT MED OKA
AEROSP MED
AM HEART J
AM J MED SC
AM J PHYS M
ANN CLIN R
ANN IN PAST
ANN MED EXP
ARCH BIOL M
ARCH INV M
B EX BIO R
CALCIF TISS
CLIN MED
EUR J CL IN
EUR J CL PH
EXP CELL RE
EXP MED SUR
EXP MOL PAT
EXP PARASIT
EXPERIENTIA
I J BIOCH B
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IEEE BIOMED
INT J CL PH
J ALB EIN M
J BIOMED MR
J CLIN PHAR
J EMB EXP M
J EXP MED
J LA CL MED
J MED
J MED PRIM
J PHARM EXP
J RETIC SOC
JAP J EXP M
KOSM BIOL M
MED RES ENG
P SOC EXP M
P U OTAGO M
PATH EUROP
PROG EX TUM
PROSTAGLAND
RES EXP MED
REV FR TRAN
RIV MED AER
THERAPIE
TOH J EX ME
VOP MED KH
Z GES EXP M

MEDICINE, LABORATORY

ACT HISTOCH
ACT ISOTOP
ACT RAD DGN
ACT RAD TPB
AM J CLIN P
AM J MED TE
AM J ROENTG
ANN BIOL CL
ANN RADIOL
ANTIM AG CH
ARCH ANAT M
AUST RADIOL
BIBL RADIOL
BIO-MED ENG
BR J RADIOL
CAN J MED T
CARDIO RES
CHEMOTHERA
CLIN CHEM
CLIN CHIM A
CURR THER R
ENDOSCOPY
EUR J CL IN
F ROENT NUK
HEALTH LAB
INT J RAD B
J AM VET RA
J BELG RAD
J CELL SCI
J CLIN END
J CLIN INV
J CLIN PATH
J LA CL MED
J NUCL MED
LAB INV
MED BIO ILL
MED LAB TEC
NUCL MED
POL REV RAD
RAD CLIN
RAD CLIN NA
RAD RAD FIS
RADIOLOGY
SC J CL INV
STAIN TECH
STRAHLENTHE
TRANSPLAN P
Z ZELL MIKR

MEDICINE, VETERINARY

ACT VET H
ACT VET SC
AM J VET RE
ANIM PRODUC
AUST VET J
AVIAN DIS
BR POULT SC
BR VET J
CAN J ANIM
CAN J COM M
CAN VET J
CORNELL VET
J AM VET ME
J AM VET RA
J ANIM SCI
J DAIRY RES
J DAIRY SCI
J RANGE MAN
J SM ANIM P
JAP J VET R
JAP J VET S
LAB ANIM SC
NAT I ANIM
NORD VETMED
PEST MON J
POULTRY SCI
RES VET SCI
VET MED/SAC
VET PATH
VET REC
WORLD POULT
Z VERS KUND
ZBL VET A
ZBL VET B

METALLURGY & MINING

ACT METALL
ACT POLY CH
ANTI-CORROS
ARCH EISENH
CAN METAL Q
CAN MIN MET
CORROS SCI
CORROSION
DOP UKR A
FIZ METAL M
FONDERIE FR
GEOEXPLOR
INT J POWD
INT J ROCK
J AUS I MET
J I METALS
J IRON ST I
J LESSC MET
J METALS
J NUCL MAT
J PHYS F
J SA I MIN
JERNKON ANN
MEM S R MET
METAL CONST
METAL CUT
METAL ENG Q
METAL PROGR
METAL STAMP
METAL TREAT
METALL
METALL ITAL
METALL MET
METALLURG T
METALWORK E
MIN CONGR J
MIN MET Q
OXID METAL
POWD METALL
REFRACTOR J
REV METALL
RUSS MET R
SCRIP METAL
STAHL EISEN
STEEL USSR
SUMITOMO SE
T IRON ST I
T JAP I MET
TEC MIT K F
Z METALLKUN

METEOROLOGY

AGR METEOR
ATMOS ENVIR
B AM METEOR
B ENVIR CON
ENV SCI TEC
ENVIR SP R
ENVIRONMENT
GEOFIS MET
IEEE ELMAGN
IEEE MICR T
J AIR POLLU
J ATM TER P
J ATMOS SCI
J ENVIR SCI
M WEATH REV
METEOR MAG
METEOR RUND
PALAEOGEO P
PAP MET GEO
PUR A GEOPH
Q J R METEO
RIV ITAL GE
RIV METEO A
Z METEOROL

MICROBIOLOGY

A VAN LEEUW
ACT DER-VEN
ACT MIC P A
ACT MIC P B
ACT MICRO H
ACT PAT S B
ACT VIROLOG
AM J TROP M
AM R RESP D
ANN IN PAST
ANN R MICRO
ANN TROP M
ANTIBIOTIKI
ANTIM AG CH
APPL MICROB
ARCH G VIR
ARCH MIKROB
B EKSP BIOL
B I PASTEUR
BACT REV
BIBL MICROB
BIKEN J
BIOTECH BIO
BR J VEN DI
CAN J MICRO
CHEMOTHERA
CYTOBIOS
EXP PARASIT
FOL MICROB
GIOR MICROB
GROWTH
J APPL BACT
J BACT
J GEN A MIC
J GEN MICRO
J HYG EP MI
J MARINE BI
J MED MICRO
J MOL BIOL
J PARASITOL
J PROTOZOOL
J RETIC SOC
J TROP MED
JAP J MICRO
MED MICROBI
MICROBIOS
MICROCHEM J
MIKROBIOLOG
MOL BIOL R
P HELM SOC
PARASITOL
PATH MICROB
PROCESS BIO
SPERIMENTAL
T RS TROP M
TOX APPL PH
VIROLOGY
Z ALLG MIKR
Z TROP PARA
ZBL BAKT A
ZBL BAKT B
ZH MIKROB E

MICROCHEMISTRY
SEE CHEMISTRY, ANALYTICAL

MICROSCOPY

A VAN LEEUW
ARCH ANAT M
FOL MICROB
J BIOL PHOT
J ELEC MICR
J MICROSC-O
J MICROSC-P
J SUBMIC CY
MICROSCOPE
MIKROSKOPIE
STAIN TECH
T AM MICROS
Z ZELL MIKR

MINERALOGY

AM MINERAL
ARK MIN GEO
B S FR MIN
CONTR MIN P
MIN DEPOSIT
MINERAL MAG
REV CHIM MI

MINING
SEE METALLURGY & MINING

MORPHOLOGY
SEE ANATOMY & MORPHOLOGY

MYCOLOGY

MYCOLOGIA
MYCOP MYC A
SABOURAUDIA
T BR MYCOL

NEUROLOGY

ACT NEUR SC
ACT NEUROCH
ACT NEUROP
ACT PSYC SC
ACTIV NERV
ADV PSY MED
AM J MENT D
AM J PSYCHI
ARCH NEUROL
ARCH PSYCHI
BIBL PSYCH
BR J MED PS
BR J PSYCHI
BRAIN
BRAIN BEHAV
COMP PSYCHI
CONF NEUROL
DEVELOP MED
DIS NER SYS
EEG CL NEUR
EPILEPSIA
EUR NEUROL
EXP BRAIN R
EXP NEUROL
F NEUR PSYC
HEADACHE
INT J NEURO
INT J NEURS
INT J PSYCH
J AM A CHIL
J COMP NEUR
J NE EXP NE
J NE NE PSY
J NERV MENT
J NEUR SCI
J NEURAL TR
J NEURO-VIS
J NEUROBIOL
J NEUROCHEM
J NEUROSURG
J NEURPHYSL
J PSYCH RES
NERVENARZT
NEURO-CHIRE
NEUROCHIRA
NEUROENDOCR
NEUROLOGY
NEUROPADIAT
NEUROPHARM
NEUROPSYCHO
NEURORADIOL
PSYCHIAT NE
PSYCHIAT Q
PSYCHIATRY
PSYCHOAN RE
PSYCHOPHARM
PSYCHOS MED
REV NEUROL
SOV NEUR R
SOV PSYCO R
Z NEUROL
ZH VYSS NER

NUCLEAR SCIENCE & TECHNOLOGY

ACT POLY PH
ANN R NUCL
ATOM ENER A
ATOM ENER R
ATOM STROM
ATOMKERNENE
ATOMNAYA EN
ATOMWIRTSCH
ENERGA ATOM
ENERGA NU M
ENERGA NUCL
ENERGE NUCL
EURO SPECTR
F ROENT NUK
IEEE NUCL S
INT J A RAD
ISOTOP RAD
J BR NUCL E
J INORG NUC
J NUC SCI T
J NUCL BIOL
J NUCL ENER
J NUCL MAT
J NUCL MED
J PHYS B
J RAD CHEM
J RADIOL
KERNENERGIE
KERNTECHNIK
LETT NUOV C
MIN FISICON
NUCL ENG DE
NUCL ENG IN
NUCL FUSION
NUCL INSTR
NUCL MED
NUCL PHYS A
NUCL PHYS B
NUCL SAFETY
NUCL SCI EN
NUCL TECH
PHYS REV C
RAD RES REV
REACT TECH
SOLAR ENERG
SOV AT EN R
SOV J NUC R
SPECT ACT A
SPECT ACT B
T AM NUCL S

NUTRITION & DIETETICS

AM J CLIN N
ANN NUTR AL
BIBL NUTR D
BR J NUTR
FDA PAPERS
FOOD TECHN
I J NUTR D
INT J VIT N
J AM DIET A
J DAIRY RES
J DAIRY SCI
J FOOD SCI
J MILK FOOD
J NUTR
J VITAMINOL
NUTR METAB
NUTR REP IN
NUTR REV
P NUTR SOC
Z ERNAHRUNG

OBSTETRICS
SEE GYNECOLOGY & OBSTETRICS

OCEANOGRAPHY

ANN I OCEAN
ARCH FISCH
ARCH OCEAN
AUST J MAR
B MARIN SCI
BEITR MEER
BER DW MEER
CAH ORST OC
CONTR MAR S
DEEP-SEA RE
DOCK HARB A
FISH B
HELG W MEER
IAN SSS FAO
INT HYD REV
J CONSEIL
J FISH RES
J I NAVIG
J MARINE RE
J NAVIG
LIMN OCEAN
MAR TECH SJ
NAV RES REV
OCEAN ENG
OCEANOL INT
OCEANOLOG R
OCEANS
PROG FISH C
PROG OCEAN
SEA FRONT
T AM FISH S
VIE MILIE B
WORLD FISH

ODONTOLOGY
SEE DENTISTR ODONTOLOGY

OPHTHALMOLOGY

A GRAEFES A
ACT OPHTH K
ADV OPHTHAL
AM J OPHTH
AM J OPTOM
ARCH OPHTAL
ARCH OPHTH
ARCH S A OF
BR J OPHTH
BR J PHYS O
CAN J OPHTH
DOC OPHTHAL
EXP EYE RES
EYE EAR NOS
INV OPHTH
KLIN MONATS
OPHTHAL RES
OPHTHALMOLA

OPTICS

APPL OPTICS
APPL SCI RE
APPL SPECTR
ASTROPHYS J
BR J PHYS O
IND PHOTOGR
INFRAR PHYS
J MOL SPECT
J OPT SOC
J SOC PHOTO
MED BIO ILL
NACHR DOKUM
OPT ENG
OPT SPECT R
OPT SPEKTRO
OPTICA ACTA
OPTIK
PHOT SCI EN
PHOTOGR ENG
PHOTOGRAMM
SCI LIGHT
SPECT ACT A
SPECT ACT B
VISION RES

ORNITHOLOGY

ARDEA
AUK
BIRD BAND
BIRD STUDY
CONDOR
IBIS
OIKOS

PAPER

AM PAP IND
APPITA
NORSK SKOG
PAP PUU
PAP TECHNOL
PAPIER
PULP PAPER
SVENS PAP T
TAPPI
ZELL PAPIER

PARASITOLOGY

ANN TROP M
EXP PARASIT
J HELMINTH
J PARASITOL
PARASITOL
Z PARASITEN
Z TROP PARA
ZBL BAKT A
ZBL BAKT B

PATHOLOGY

ACT PAT JAP
ACT PAT S A
AM J MENT D
AM J PATH
ARCH PATH
B EKSP BIOL
B PHYSIO PA
BEITR PATH
BR J EX PAT
EXP MOL PAT
EXP PATH
HUMAN PATH
J CLIN PATH
J COMP PATH
J FOR SCI
J NE EXP NE
J PATHOLOGY
N-S ARCH PH
N-S ARCHIV
ORAL SURG O
PATH BIOL
PATH EUROP
PATHOLOGY
PATOLOGIA
RES COMM CP
SPERIMENTAL
TOX APPL PH
VIRCH ARC A
VIRCH ARC B

PEDIATRICS

ACT PAED H
ACT PAED SC
AM J DIS CH
ANN CHIR IN
ARCH DIS CH
ARCH FR PED
AUST PAEDIA
CHILD DEV
CLIN PEDIAT
GENET PSYCH
HELV PAED A
J PED SURG
J PEDIAT
KLIN PADIAT
MON PAEDIAT
MON S RES C
MONATS KIND
NEUROPADIAT
PADIATR PAD

PED CLIN NA
PEDIAT RES
PEDIATRICS
Z KIND CH G
Z KINDERHEI

ARMACOLOGY &
PHARMACY

ACT PHARM S
ACT PHARM T
ACT POL PH
ADV CY NU R
AGENT ACTIO
AGRESSOLOG
AM J HOSP P
AM J PHAR E
AM J PHARM
ANN PHARM F
ANN R PHARM
ANTIM AG CH
ARCH I PHAR
ARCH PHARM
ARZNEI-FOR
B EKSP BIOL
BR J PHARM
CAN J PH SC
CANC CH P1
CANC CH P2
CANC CH P3
CHEM PHARM
CHEMOTHERA
CLIN PHARM
COMP GEN PH
CURR THER R
CYTOBIOS
DISS PHARM
DRUG COSMET
DRUG INTEL
DRUGS
EUR J CL PH
EUR J PHARM
FARMACO PRA
FARMACO SCI
FARMAKOL T
FDA PAPERS
INT J CL PH
INT PHARMAC
J AM PHARM
J ANTIBIOT
J CLIN PHAR
J MED CHEM
J PHARM EXP
J PHARM PHA
J PHARM SCI
J PHARMACOL
JAP J PHARM
KHIM FAR ZH
LLOYDIA
MOLEC PHARM
N-S ARCH PH
N-S ARCHIV
NEUROPHARM
P WEST PH S
PHARM ACT H
PHARM PRAX
PHARM REV
PHARMACOL
PHARMACOL R
PHARMACOLOG
PHARMAKOPSY
PHARMAZIE
PROD P PHAR
PSYCHOPHARM
QUAL PLANT
RES COMM CP
THERAPIE
TOXICON
YAKUGAKU ZA

ARMACY
SEE PHARMACOLOGY &
PHARMACY

OTOGRAPHY

APPL OPTICS
IND PHOTOGR
J BIOL PHOT
J OPT SOC
J PHOT SCI
J SMPTE
J SOC PHOTO
MED BIO ILL
OPT ENG
OPTICA ACTA
OPTIK
PHOT SCI EN
PHOTOCHEM P
PHOTOGRAMMA
ZH NP FOTOG

YSICS

ACT CRYST A
ACT PHYS AU
ACT PHYS CH
ACT PHYS H
ACT POLY PH
ADV MOL REL
ADV PHYSICS
AM J PHYS
AN FISICA
ANN BRUX 1
ANN I HEN A
ANN PHYSICS
ANN PHYSIK
ANN PHYSIQ
ANN R NUCL
APPL PHYS L
APPL SCI RE
ARK FYSIK
ATT ANL R F
AUST J PHYS
B AM PHYS S
B POL MATH
CAN J PHYS
CESK C FYS
CHEM PHYS L
COM PA MATH
COMB FLAME
COMM MATH P
COMPUTER PH
CONT PHYS
CR AC SCI A
CR AC SCI B
CRYOGENICS
CZEC J PHYS
DAN BOLG
DISC FARAD
ENERGY CONV
FIZ METAL M
FORTSCHR PH
FUEL
HELV PHYS A
HIGH TEMP R
I J PA PHYS
I J PHYSICS
I J THEOR P
IAN SSS FIZ
IEEE NUCL S
INFRAR PHYS
INT J ELECT
INT J HEAT
IVUZ FIZ
J APPL PHYS
J BR NUCL E
J CHEM PHYS
J CHEM S F1
J CHEM S F2
J CHIM PHYS
J COMPUT PH
J FAC TOK 1
J FLUID MEC
J GEOMAGN G
J HEAT TRAN
J MACR S PH
J MATH PHYS
J MECH PHYS
J NUCL MAT
J OPT SOC
J PHYS A
J PHYS B
J PHYS C
J PHYS CH S
J PHYS D
J PHYS F
J PHYS JAP
J PHYSIQUE
J PLASMA PH
J POL SC A2
J RES NBS A
J SCI IND R
J SOUND VIB
J VAC SCI T
JAP J A PHY
JETP LETTER
LETT NUOV C
METROLOGIA
MIN FISICON
MOLEC PHYS
NATURE-PHYS
NUCL FUSION
NUCL INSTR
NUCL PHYS A
NUCL PHYS B
NUOV CIM A
NUOV CIM B
OPT SPECT R
OPTICA ACTA
OPTIK
P KON NED B
P R IR AC A
P ROY SOC A
P RS EDIN A
PHI T ROY A
PHILOS MAG
PHYS C GLAS
PHYS FLUIDS
PHYS KOND M
PHYS LETT A
PHYS LETT B
PHYS MED BI
PHYS MET R
PHYS NORVEG
PHYS REV A
PHYS REV B
PHYS REV C
PHYS REV D
PHYS REV L
PHYS SCR
PHYS ST S-A
PHYS ST S-B
PHYS TODAY
PHYSICA
PLASMA PHYS
PROG T PHYS
Q J MECH AP
REP ION SPA
REP PR PHYS
REV G THERM
REV M PHYS
REV PHYS AP
REV RO PHYS
SOL ST COMM
SOL ST ELEC
SOLAR ENERG
SOLAR PHYS
SOV J NUC R
SOV PH CR R
SOV PH JE R
SOV PH SE R
SOV PH SS R
SOV PH TP R
SOV PH US R
SPECT ACT A
SPECT ACT B
STU CER FIZ
SUMITOMO SE
SUPP PR T P
SURF SCI
T AM NUCL S
TRANSP THEO
USP FIZ NAU
VACUUM
VAKUUM-TECH
Z ANG MA ME
Z ANG MATH
Z ANG PHYS
Z KRISTALL
Z NATURFO A
Z PHYS
Z PHYS CH F
Z PHYS CH L
ZH EKSP TEO
ZH TEKH FIZ

PHYSIOLOGY

ACT ENDOCR
ACT PHYSL H
ACT PHYSL L
ACT PHYSL P
ACT PHYSL S
ACUSTICA
ADV CY NU R
ADV R PHYSL
AGRESSOLOG
AM ANTHROP
AM HEART J
AM J P ANTH
AM J PHYSL
ANN ENDOCR
ANN PHYS BI
ANN R PHYSL
ARCH I PHYS
ARCH SCI PH
AUDIOLOGY
B EKSP BIOL
BIBL PRIMAT
BIOL PSYCHI
BIOL REPROD
BR J PHYS O
CAN J PHYSL
CONTRACEPT
EEG CL NEUR
ENDOCR JAP
ENDOCRINOL
ENDOKRINOL
ERGEB PHYSI
F NEUR PSYC
GEN C ENDOC
H-S Z PHYSL
HUMAN BIOL
INT Z ANG P
J ACOUST SO
J APP PHYSL
J CELL PHYS
J CLIN END
J COMP PHYS
J ENDOCR
J GEN PHYSL
J NEURPHYSL
J PHYSL LON
J PHYSL PAR
JAP J PHYSL
LYMPHOLOGY
METABOLISM
MICROVASC R
NEPHRON
PEST BIOCH
PFLUG ARCH
PHYSIOL REV
PHYSL BEHAV
PHYSL BOHEM
PHYSL CHEM
PSYCHOPHYSL
Q J EXP PHY
RESP PHYSL
REV ESP FIS
Z VER PHYSL

POLYMER SCIENCE

APP PLAS RE
BR PLAST
CHEM H POLY
EUR POLYM J
EUROPLAST M
INT J PEPT
INT J PROT
J APPL POLY
J MACR S RM
J MACR S RP
J POL SC A1
J POL SC A2
J POL SC PC
J POL SC PL
J POL SCI B
J POL SCI C
KAUT GUM KU
KUNSTSTOFFE
MOD PLAST
PLAST POLYM
PLAST WORLD
PLASTICA
POLYM ENG S
POLYM J
POLYMER
VYSO SOED B
WEST PLASTI

PRIMATOLOGY
SEE ZOOLOGY

PSYCHIATRY

ACT PSYC SC
ADV PSY MED
AM J ORTHOP
AM J PSYCHI
ARCH G PSYC
ARCH PSYCHI
BIBL PSYCH
BIOL PSYCHI
BR J PSYCHI
COMP PSYCHI
CONF PSYCH
F NEUR PSYC
INT PHARMAC
J AM A CHIL
J CHILD PSY
J NE NE PSY
NERVENARZT
PHARMAKOPSY
PSYCHIAT CL
PSYCHIAT NE
PSYCHIATRY
PSYCHOL MED
PSYCHOSOMAT
SEM PSYCHIA
SOCIAL PSY
SOV NEUR R

PSYCHOLOGY

ACT PSYC SC
ACT PSYCHOL
AM BEHAV SC
AM J PSYCHA
AM J PSYCHI
AM J PSYCHO
AM J PSYCHT
AM PSYCHOL
ANIM BEHAV
ANN ANIM PS
ANN PSYCHOL
ANN R PSYCH
ARCH G PSYC
AUST J PSYC
BEHAV RES T
BEHAV SCI
BIBL PSYCH
BR J ED PSY
BR J MATH S
BR J MED PS
BR J PSYCHI
BR J PSYCHO
BR J SOCIAL
CAN J PSYCH
CAN PSYCHOL
COMM MENT H
CONF PSYCH
DEVELOP PSY
DIS NER SYS
EDUC PSYC M
GENET PSYCH
HUMAN FACT
I J PSYCHOL
INT J CE HY
INT J GRP P
J ABN PSYCH
J ANAL PSYC
J APPL BEH
J APPL PSYC
J CHILD PSY
J CLIN PSYC
J COM PHYSL
J CONS CLIN
J COUN PSYC
J EDUC PSYC
J EX AN BEH
J EXP C PSY
J EXP PSYCH
J EXP S PSY
J GEN PSYCH
J GENET PSY
J INDIV PSY
J MATH PSYC
J NE NE PSY
J NERV MENT
J PERS SOC
J PERSONAL
J PSYCHOL
J PSYCHOSOM
J SOC PSYCH
J VERB LEAR
JAP PSY RES
MENTAL HYG
NEUROPSYCHO
PERC MOT SK
PERC PSYCH
PERS PSYCH
PHYSL BEHAV
PSYCH PRAX
PSYCHIATRY
PSYCHOL AFR
PSYCHOL B
PSYCHOL FOR
PSYCHOL ISS
PSYCHOL REC
PSYCHOL REP
PSYCHOL REV
PSYCHOL STU
PSYCHOL TOD
PSYCHOMETRI
PSYCHON SCI
PSYCHOPHARM
PSYCHOPHYSL
PSYCHOS MED
PSYCHOTH PS
Q J EXP PSY
SC J PSYCHO
SOV PSYCO R
Z EXP A PSY

PUBLIC HEALTH
SEE HYGIENE & PUBLIC
HEALTH

RADIO
SEE
TELECOMMUNICATIONS

RADIOLOGY

ACT RAD DGN
ACT RAD TPB
AM J ROENTG
ANN RADIOL
AUST RADIOL
BIBL RADIOL
BR J RADIOL
F ROENT NUK
INT J A RAD
INT J RAD B
INV RADIOL
ISOTOP RAD
J AM VET RA
J BELG RAD
J RADIOL
MIN RAD
NEURORADIOL
POL REV RAD
RAD CLIN
RAD CLIN NA
RAD DIAGN
RAD HE DATA
RAD RAD FIS
RADIAT DATA
RADIAT RES
RADIOLOGE
RADIOLOGY
SEM ROENTG

REACTORS
SEE NUCLEAR SCIENCE
& TECHNOLOGY

RESPIRATORY SYSTEM

ACT ALLERG
AM R RESP D
ANN ALLERGY
ANN OTOL RH
ARCH KL EXP
ARCH OTOLAR
B PHYSIO PA
CHEST
EYE EAR NOS
INT A ALLER
J ALLERG CL
J THOR SURG
LARYNGOSCOP
METABOLISM
ORL-J OTO R
PRAC OTO-RH
PROG ALLERG
RESPIRATION
SC J RESP D
THORAX

SCIENCES,
MULTIDISCIPLINARY

ACT CIENT V
AM J SCI
AM SCIENT
AN AC BRASI
ANAL LETTER
ANN NY ACAD
ANTARCTIC J
APPL SCI RE
ARB U B MAT
ARCH SCI
ARCTIC
ATT ANL R F
B CSAR BELG
B NJ ACAD S
BELL SYST T
BIOSCIENCE
CR AC SCI D
CR SOC PHYS
CURRENT SCI
DAN BSSR
DAN SSSR
ENDEAVOUR
EURO SPECTR
EXPERIENTIA
GEN SYST
I J TECHN
IBM J RES
IMPACT SCI
IND RES
ISR J TECH
J FRANKL I
J INTERD CY
J RS NZ
J SCI LAB D
J STORED PR
LIFE SCI P1
LIFE SCI P2
MAT FYS MED
MAT FYS SKR
MEM I OSW C
NATURAL CAN
NATURAL HI
NATURE
NATURE-BIOL
NATURE-PHYS
NATURWISSEN
NAV RES REV
NBS MONOGR
NZ J SCI
P AC NAT S
P CAMB PHIL
P I A SCI B
P JAP ACAD
P NAS IND A
P NAS IND B
P NAS US
P R IR AC B
P RS EDIN A
P RS EDIN B
PAC SCI
PHIL RES R
PHIL TECH R
PHILOS SCI
RECHERCHE
REP NRL PRO
SCI AM
SCI FORUM
SCI PROGR
SCI R TOH A
SCIENCE
SCIENTIA
SEARCH
SEPARAT SCI
SOV SCI REV
T NY AC SCI
T ROY SOC C
T RS S AFR
T WISC AC
TECHNOL REV
TENSOR
TEX J SCI
TRAV HUMAIN
VAN SSSR
Z NATURFO B

SOCIAL SCIENCES

ACT SOCIOL
AM J ECON S
AM J SOCIOL
AM POLI SCI
AM SOCIOL
AM SOCIOL R
BR J ADDICT
CAN R SOC A
CURR ANTHR
DEMOGRAPHY
ECONOMETRIC
ETHNOLOGY
HUMAN RELAT
INT J ADDIC
J BIOSOC SC
J CONFL RES
J COUN PSYC
J EDUC RES
J EXP EDUC
J EXP S PSY
J FOR SCI
POLI SCI Q
PUBL OPIN Q
RURAL SOCIO
SCI STUD
SOCIAL BIOL
SOCIAL FORC
SOCIAL PROB
SOCIAL SC M
SOCIOL EDUC
SOCIOL INQ
SOCIOL SOC
SOCIOLOGY
SOCIOMETRY

SOIL SCIENCE

CAN J SOIL
CROPS SOILS
GEODERMA
J SOIL SCI
J SOIL WAT
PLANT SOIL
SOIL SCI
SOIL SCI SO
SOV SOIL R

SOLID-STATE PHYSICS

FERROELECTR
FIZ TVERD T
J PHYS C
J SOL ST CH
PHYS REV B
PHYS ST S-A
PHYS ST S-B
SOL ST COMM
SOL ST ELEC
SOL ST TECH
SOV PH SS R
THIN FILMS
THIN SOL FI

SONICS
SEE ACOUSTICS

SPECTROSCOPY

APPL SP REV
APPL SPECTR
CAN J SPECT
INFRAR PHYS
J MOL SPECT
J QUAN SPEC
OMR-ORG MAG
OPT SPECT R
OPT SPEKTRO
ORG MASS SP
SPECT ACT A
SPECT ACT B
SPECT LETT

SPEECH
SEE LINGUISTICS

STATISTICS

AM STATISTN
ANN I HEN B
ANN I STAT
ANN MATH ST
AUST J STAT
B MATH STAT
BR J MATH S
CALC STAT A
HUMAN HERED
INT STAT R
J AM STAT A
J APPL PROB
J ROY STA A
J ROY STA B
J ROY STA C
PSYCHOMETRI
TECHNOMET
TEOR VEROYA
TRANSP THEO
Z WAHRSCH V

SURGERY

ACT ANATOM
ACT CHIR H
ACT NEUROCH
ACT ORTH SC
ACT PAT JAP
AM FAM PHYS
AM HEART J
AM J ANAT
AM J CARD
AM J SURG
ANAT REC
ANGIOLOGICA
ANGIOLOGY
ANN CHIR
ANN CHIR GY
ANN CHIR IN
ANN CHIR PL
ANN SURG
ARCH SURG
AUST NZ J S
BIBL ANATOM
BIBL CARDIO
BR HEART J
BR J SURG
CAN J SURG
CHIR PLAST
CHIRURG
CIRCUL RES
CIRCULATION
EUR SURG RE
EXP MED SUR
HELV CHIR A
IND MED SUR
J ANAT
J BONE JOIN
J CARD SURG
J CHIR
J IRISH C P
J NEUROSURG
J PED SURG
J SURG RES
J THOR SURG
J TRAUMA
JAP HEART J
LANGENBECK
NEURO-CHIRE
NEUROCHIRA
ORAL SURG O
PLAS R SURG
PROG SURG
RECONS SURG
RES EXP MED
RESPIRATION
REV CHIR OR
SC J PLAST
SURG CL NA
SURG GYN OB
SURG ITAL
SURGERY
T AM S ART
TRANSPLANT
Z GES EXP M
Z KIND CH G
Z KREISLAUF
Z ORTHOP GR

TELECOMMUNICATIONS

ANN TELECOM
BELL SYST T
ELEC COMMUN
ELECTR CO J
IEEE AER EL
IEEE ANTENN
IEEE B TELE
IEEE BROADC
IEEE C TECH
IEEE COMMUN
IEEE MICR T
IEEE VEH T
IEEE VEH TG
J SMPTE
JAP TELECOM
MARCONI REV
NACHRTECH Z
POINT P COM
RADIO EL EN
RADIO ENG R
RADIO SCI
RADIOTEK EL
RCA REVIEW
REV EL COMM
TEL RAD E R
TELECOMM J

THORAX
SEE RESPIRATORY
SYSTEM

TROPICAL MEDICINE

AM J TROP M
ANN TROP M
J TROP MED
T RS TROP M
TROP GEO ME
Z TROP PARA

UROGENITAL SYSTEM

ACT OBST SC
ADV OBSTET
AM J OBST G
ANN UROL
FERT STERIL
HAUTARZT
INT J FERT
INV UROL
J REPR FERT
J UROL
J UROL NEPH
KIDNEY INT
OBSTET GYN
SC J UROL N
SURG GYN OB
UROL INTERN
UROLOGE

VIROLOGY

ACT VIROLOG
ARCH G VIR
B I PASTEUR
INFEC IMMUN
J GEN VIROL
J VIROLOGY
PROG MED VI
VIROLOGY
VOP VIRUSOL
ZBL BAKT A
ZBL BAKT B

WELDING TECHNOLOGY

AUT WELD R
METAL CONST
WELD PROD R
WELD RES C
WELDING J

ZOOLOGY

ACT ZOOL H
AM J P ANTH
AM MIDL NAT
AM NATURAL
AM ZOOLOG
ANIM BEHAV
ANN BIOL AN
ANN ENT S A
ANN R ENTOM
ANN ZOOTECH
ARDEA
ARK ZOOL
ATT ANL R F
AUK
B ENT RES
B I ZOOL AS
BEHAVIOUR
BIBL PRIMAT
BIRD BAND
BIRD STUDY
CALIF FISH
CAN ENTOMOL
CAN J ANIM
CAN J GENET
CAN J ZOOL
CONDOR
COPEIA
CURR ANTHR
ECOL MONOGR
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UNION OF SOVIET SOCIALIST REPUBLICS

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ASTRONOM ZH
ATOMNAYA EN
AUT REMOT R
AUT WELD R
B EKSP BIOL
B EX BIO R
BIOFIZIKA
BIOKHIMIYA
BIOPHYSIC R
COKE CHEM R
COLLOID J R
COMB EXPL R
DAN BSSR
DAN SSSR
DOP UKR A
ELEC TECH R
ENG CYBER R
ENVIR SP R
FARMAKOL T
FIZ METAL M
FIZ TVERD T
GENETIKA
GEOCH INT R
GEOKHIMIYA
HIGH TEMP R
IAN SSS BIO
IAN SSS FAO
IAN SSS FIZ
IAN SSS KH
IND LAB R
INSTR EXP R
IVUZ FIZ
J APPL MA R
JETP LETTER
KHIM FAR ZH
KHIM GETERO
KHIM PRIR S
KOLL ZH
KOSM BIOL M
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NAU T INF 1
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RUSS J PH R
RUSS MET R
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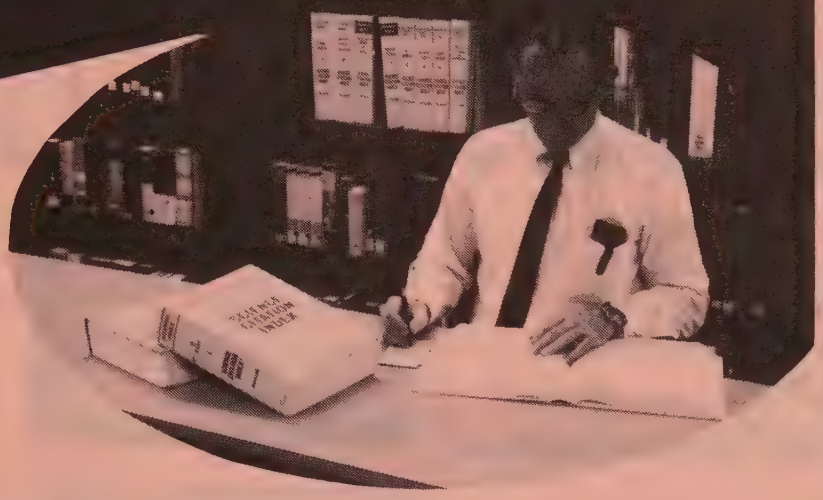

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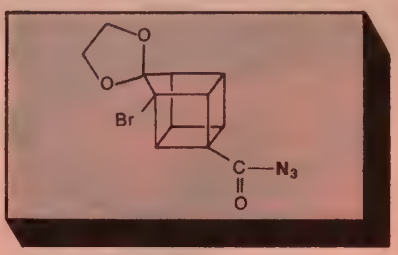

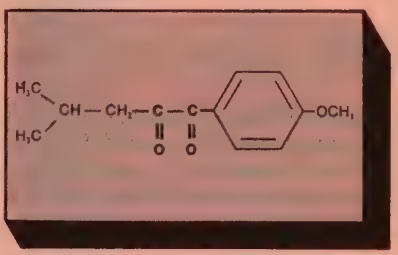

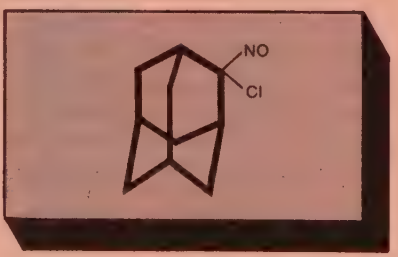

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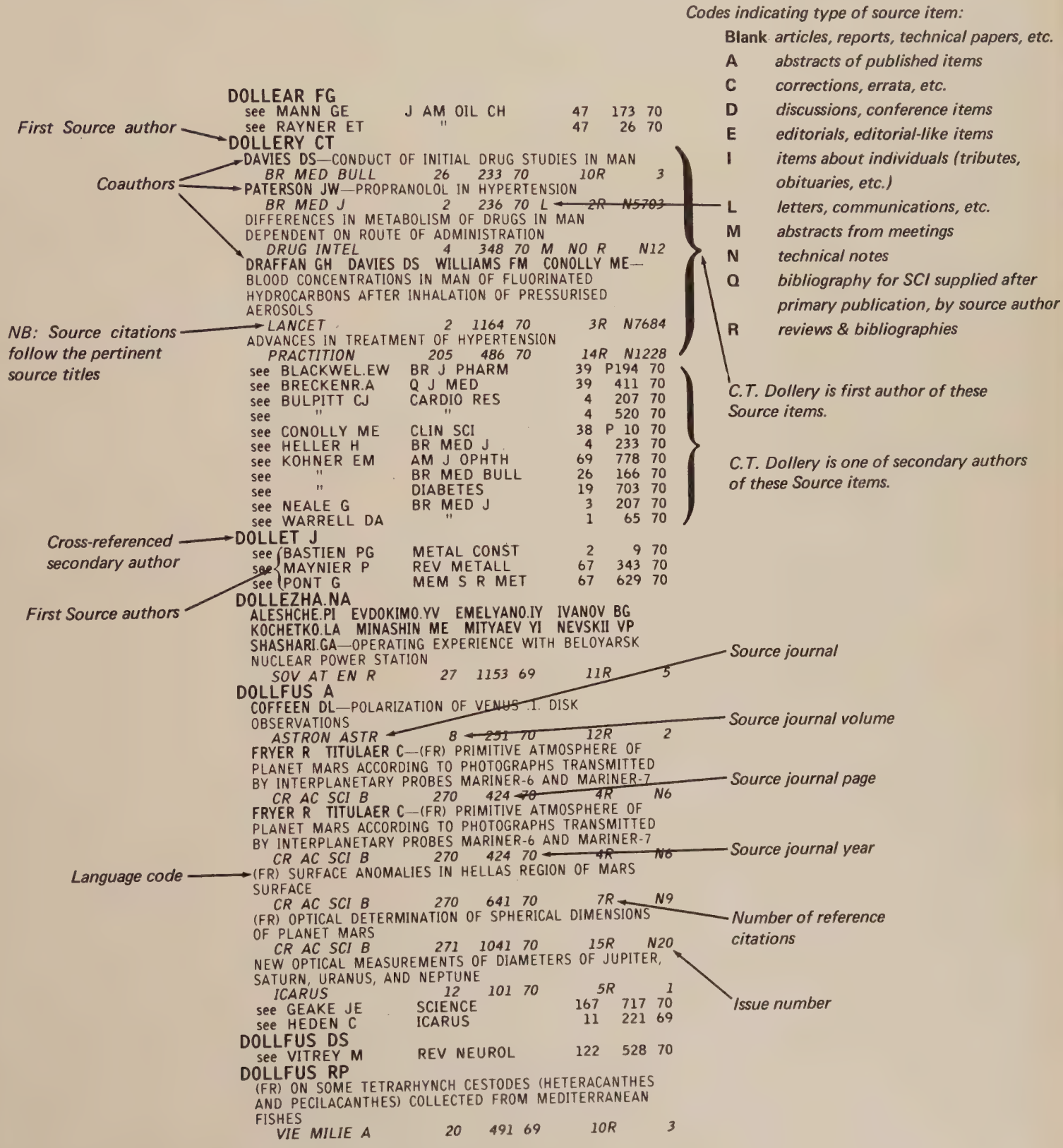
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